CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER REPLACEMENT

NOVEMBER 2020

IFBXXX CLMC643
C.I.P. NO. 2231.334
AWU PROJECT # 2231.334
ROW ID # 11903857
UC TRACKING # UUC-180412-04-02

AUSTIN WATER
EXPIRATION DATE
December 02, 2023

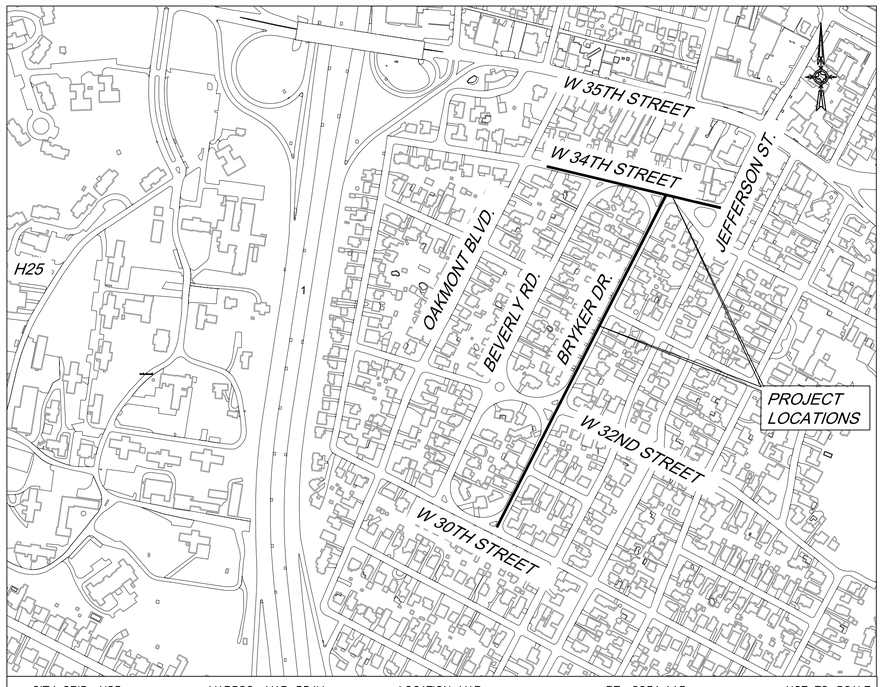
NOTES:

1. CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT 24 HOURS PRIOR TO STARTING CONSTRUCTION OR CLEARING OPERATIONS.
2. CONTRACTOR SHALL CALL "ONE CALL" AT 1-800-344-8377 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO ANY WORK IN CITY EASEMENTS OR STREET RIGHT OF WAYS.
3. THIS PROJECT IS LOCATED WITHIN THE JOHNSON CREEK WATERSHED (CLASSIFIED AS WATER SUPPLY SUBURBAN) AND SHALL BE DEVELOPED, CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH CHAPTER 25 OF THE CODE OF THE CITY OF AUSTIN.
4. NO PORTION OF THIS SITE IS LOCATED WITHIN PARKLAND OR LAND USED FOR PARK PURPOSES. (IF SUCH LAND IS INCLUDED, DOCUMENTATION OF PARKS AND RECREATION DEPT APPROVAL IS REQUIRED AT THE TIME OF SUBMITTAL FOR GENERAL PERMIT PROGRAM APPROVAL.)
5. NO PORTION OF THIS SITE IS LOCATED WITHIN THE 100-YEAR FLOODPLAIN, PER CITY OF AUSTIN AND FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAPS. PER FLOOD INSURANCE RATE MAP NO. 48453C0445J.
6. THIS PROJECT NOT WITHIN THE EDWARDS AQUIFER RECHARGE ZONE AS DEFINED BY THE CITY OF AUSTIN. THIS PROJECT NOT WITHIN THE EDWARDS AQUIFER RECHARGE ZONE AS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ).
7. THERE ARE NO CRITICAL ENVIRONMENTAL FEATURES WITHIN 150' OF ANY PORTION OF THIS PROJECT A FIELD INVESTIGATION HAS NOT BEEN PERFORMED AS A PART OF THIS PROJECT AND IS NOT REQUIRED.
8. THE STANDARD SHEETS INCLUDED IN THIS PLAN SET WERE PROVIDED BY THE GENERAL PERMIT PROGRAM OFFICE FOR USE ON GENERAL PERMIT PROJECTS ONLY. IF ANY MODIFICATIONS TO THE SHEETS WERE MADE, THEY ARE CLEARLY INDICATED ON THE SHEET ITSELF AND IN THE COVER SHEET INDEX.
9. ADDITIONAL TRENCH E/S CONTROL: TRIANGULAR SEDIMENT FILTER DIKE WILL BE INSTALLED ACROSS FULL WIDTH OF TRAFFIC CLOSURE AND DOWNSTREAM OF CONSTRUCTION AREA, PERPENDICULAR TO CURB. FILTER DIKE TO FOLLOW ACTIVE CONSTRUCTION. REMOVING AND RE-SETTING FILTER DIKE IS CONSIDERED SUBSIDIARY TO BARRICADES AND TRAFFIC HANDLING.
10. PROJECT SCHEDULE MUST BE APPROVED BY THE GENERAL PERMIT PROGRAM (GPP) COORDINATOR. INSTALLATION AND REMOVAL OF TEMPORARY AND PERMANENT EROSION/SEDIMENTATION CONTROLS MUST BE REFLECTED IN THE SCHEDULE, BY STATION NUMBER. GPP ARBORIST MUST BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF TRANSITION BETWEEN PHASES.
11. APPROPRIATE EASEMENTS/APPROVALS MUST BE SECURED AND DOCUMENTED FOR PROJECT AREAS LOCATED OUTSIDE OF RIGHT OF WAYS. NO WORK SHALL BE PERFORMED WITHIN THESE AREAS UNTIL ASSOCIATED RIGHT OF ENTRY HAS BEEN SECURED. ADDITIONALLY, THIS PROJECT WILL NOT BE CONSIDERED COMPLETE UNTIL ALL RECORDED EASEMENT DOCUMENT NUMBERS HAVE BEEN OBTAINED AND SHOWN ON PLANS.
12. COORDINATES SHOWN HEREON ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (4203), NAD83(CORS). PROJECT REFERENCE POINTS ARE CITY OF AUSTIN MONUMENT "J-25-1001" (CB58) HAVING COORDINATE VALUES OF N=10,085,028.06, E6=3,112,116.43 AND "H-24-1001" HAVING COORDINATE VALUES OF N=10,080,581.36, E=3,107,208.51. COMBINED SCALE FACTOR = 1.0001.
13. ELEVATIONS AND CONTOURS SHOWN HEREON ARE BASED ON CITY OF AUSTIN MONUMENT "J-25-1001" (CB58) HAVING AN ELEVATION OF 579.64 FEET. NAVD88 VERTICAL DATUM.
14. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON VISIBLE SURFACE FEATURES, PAINT MARKS AND RECORD UTILITY PLANS PREPARED BY OTHERS. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR FIELD VERIFYING THE LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES. PRIOR TO EXCAVATION OR DRILLING "ONE-CALL" TEXAS 811 SHOULD BE CONTACTED.
15. CONTRACTOR SHALL STAKE ALL PROPOSED SERVICE CONNECTIONS LOCATED WITHIN THE CRITICAL ROOT ZONE OF TREES 8" IN CALIPER AND LARGER AT LEAST 21 CALENDAR DAYS PRIOR TO CONSTRUCTION OF SUCH SERVICES. STAKING SHALL CONSIST OF A LATH WITH NAIL AND PAINT MARKINGS. IN CASES WHERE A STAKE CANNOT BE PLACED WITHOUT DAMAGING PROPERTY, CONTRACTOR MAY USE PAINT ONLY. ONCE STAKING IS COMPLETE ITS THE CONTRACTORS RESPONSIBILITY TO INFORM THE CITY OF AUSTIN CONSTRUCTION INSPECTOR WITHIN TWENTY-FOUR HOURS. THE CITY OF AUSTIN 'S CONSTRUCTION INSPECTOR WILL THEN COORDINATE A FIELD REVIEW OF THE SERVICE LOCATIONS WITH THE GENERAL PERMIT PROGRAM COORDINATOR AND PROPERTY OWNERS. SERVICE LINE LOCATIONS MAY BE ADJUSTED BASED ON THE REVIEW AND WILL BE RESTAKED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. ALL SERVICE LINE STAKING SHALL BE MAINTAINED UNTIL THE SERVICE IS INSTALLED.

GENERAL PERMIT PROGRAM CORRECTIONS RECORD

No.	DESCRIPTION	BY	CORRECT (C) ADD (A) VOID (V) SHEET Nos.	TOTAL No. SHEETS IN CORRECTION PLAN SET	CITY OF AUSTIN APPROVAL/DATE	DATE IMAGED

PRINTED ON: *Nov 12, 2020 - 9:30am*



CITY GRID: N25 MAPSCO: MAP 554V LOCATION MAP PZ: 2231.113 NOT TO SCALE

PROJECT INFORMATION:

STREET ADDRESS:
BRYKER DRIVE AND W. 34TH STREET
AUSTIN, TX 78724
COA GRID: N25
MAPSCO: MAP 554V

CLIENT/SPONSOR:
CITY OF AUSTIN
AUSTIN WATER UTILITY
625 EAST 10TH STREET
AUSTIN, TX 78701

CONTACT:
AZARI HOUMAN, PE
(512) 972-2049

PROJECT MANAGEMENT:
CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS
PROJECT MANAGEMENT DIVISION
505 BARTON SPRINGS RD., STE. 900
AUSTIN, TX 78704

CONTACT:
SHOBANA ANGIA, PMP
PHONE: (512) 974-1581

SUBMITTAL PREPARED BY:

ARCADIS
1717 WEST 6TH STREET, SUITE 210
AUSTIN, TX 78703
TEXAS BOARD OF PROFESSIONAL ENGINEERS
FIRM REGISTRATION NUMBER F-533

CONTACT:
JEFFREY RECK, P.E.
PH: (210) 469-3351
EMAIL: JEFFREY.RECK@ARCADIS.COM

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
11-12-2020

APPROVALS:

SUBMITTED FOR APPROVAL BY:

PROJECT ENGINEER - JEFFREY RECK, P.E. — DATE: 11-12-2020

APPROVED BY:

GENERAL PERMIT PROGRAM COORDINATOR — DATE: December 03, 2020

GP-2020-0000.AWU
DEVELOPMENT PERMIT NUMBER

SUBMITTAL DATE

REVIEWED BY:

AUSTIN WATER UTILITY — DATE

PROJECT SPONSOR — DATE

ANNUAL GENERAL PERMIT NUMBER

AULCC NUMBER

NOTES:
GENERAL PERMIT PROGRAM APPROVAL DOES NOT CONSTITUTE UTILITY ALIGNMENT/ASSIGNMENT APPROVAL. RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS.

GENERAL PERMIT PROGRAM

SHEET INDEX

CIVIL SYMBOLS

EXISTING

- WATER VALVE
- WATER METER
- WATER MANHOLE
- WASTEWATER MANHOLE
- STORM MANHOLE
- TELEPHONE MANHOLE
- CLEANOUT
- FIRE HYDRANT
- IRRIGATION CONTROL VALVE
- BOREHOLE
- POWER POLE
- GUY ANCHOR
- GUY POLE
- SIGN
- TELEPHONE MARKER
- GAS METER

VOL. = VOLUME

PG. = PAGE

P.R.T.C. = PLAT RECORDS OF TRAVIS COUNTY

O.P.R.T.C. = OFFICIAL PUBLIC RECORDS OF TRAVIS COUNTY

T.C.A.D. = TRAVIS CENTRAL APPRAISAL DISTRICT

( ) = RECORD INFORMATION

- W — WATER LINES
- WWL — WASTEWATER LINES
- OE — OVERHEAD ELECTRIC
- GL — GAS LINES
- 485 — CONTOUR
- 54" WATER LINE

PROPOSED

- PROPOSED EXPOSED PIPELINE (4-INCHES AND LARGER)
- PROPOSED BURIED PIPELINE (4-INCHES AND LARGER)
- STEEL CASING (PLAN VIEW)
- STEEL CASING (PROFILE VIEW)
- CONSTRUCTION CONTROL POINT
- BENCH MARK NUMBER DESIGNATION
- TRAVERSE TURN POINT
- DRAIN STATION (PLAN VIEW)
- DRAIN STATION (PROFILE VIEW)
- COMBINATION AIR VALVE MANHOLE (PLAN VIEW)
- COMBINATION AIR VALVE MANHOLE (PROFILE VIEW)
- WATER SERVICE LINES
- WASTEWATER LATERIALS
- CORROSION MONITORING TEST STATION (PROFILE VIEW)
- FULL DEPTH SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE PAVEMENT.
- FULL DEPTH SAWCUT, REMOVE AND REPLACE EXISTING ASPHALT PAVEMENT.
- GRAVEL ROAD
- LOW LYING WET AREA
- FO — FIBER OPTICS LINE
- SF — SILT FENCE
- LOC — LIMITS OF CONSTRUCTION
- PROPOSED GATE VALVES
- FH — PROPOSED FIRE HYDTRANT
- MH — PROPOSED WASTEWATER MANHOLES
- PROPOSED AIR RELEASE VALVE (ARV)
- HOT TAP
- PROPOSED WATER AND WASTEWATER LINE
- PROPOSED BURIED PIPELINE (> 8"Ø)

SHEET CATEGORY

G - GENERAL
C - CIVIL
L - LANDSCAPING
TC - TRAFFIC CONTROL
SD - STANDARD DETAIL

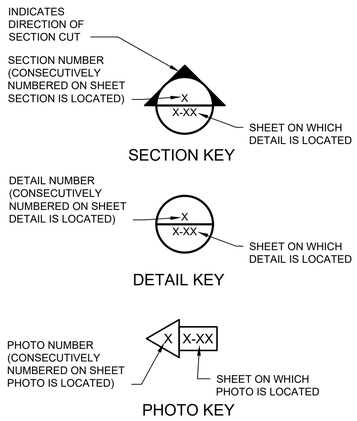
VALVE SYMBOLS

- FEMALE QUICK COUPLING CONNECTION
- FE — FLOW ELEMENT
- GATE VALVE (GV)
- PLUG VALVE (OPEN)
- PLUG VALVE (CLOSED)
- CHECK VALVE (CKV)
- BALL VALVE
- DRAIN

FITTING SYMBOLS

- FITTING WITH FLANGED JOINT ENDS
- FITTING WITH RESTRAINED PUSH-ON
- FITTING WITH WELDED JOINT ENDS
- GROOVED END COUPLING
- HOSE/COUPLING CONNECTION
- PLUG
- PVC SOCKET WELD
- REDUCER

MISCELLANEOUS SYMBOLS



DIMENSIONS:

(*) DENOTES DIMENSIONS TO BE DETERMINED BY MANUFACTURER

(**) DENOTES DIMENSIONS TO BE DETERMINED IN FIELD

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
ARV	AIR RELEASE VALVE
&	AND
APPROX	APPROXIMATE
@	AT
AWWA	AMERICAN WATER WORKS ASSOCIATION
AS	AUTOMATIC SWITCHOVER
AWU	AUSTIN WATER UTILITY
BP	BOOSTER PUMP
BM	BENCH MARK
BF	BLIND FLANGE
BFV	BUTTERFLY VALVE
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BV	BALL VALVE
BWF	BARBED WIRE FENCE
CG	CHLORINE GAS
CO	CLEAN OUT
COV	CONE VALVE
CAV	COMBINATION AIR VALVE
CML	CEMENT MORTAR LINED
CMP	CORRUGATED METAL PIPE
℄	CENTERLINE
CONC.	CONCRETE
CCP	CONCRETE CYLINDER PIPE
CPLG	COUPLING
CJ	CONSTRUCTION JOINT
C	CURVE
CONST.	CONSTRUCTION
CL	CHLORINE
CLF	CHAIN LINK FENCE
CV	CHECK VALVE
CI	CORROSION INHIBITOR
CLD	CHLORINE LEAK DETECTOR
CNP	CONTROL CONSTRUCTION POINT
CP	CONTROL PANEL
CSC	CONCRETE STEEL CYLINDER
COA	CITY OF AUSTIN
CONN.	CONNECTIONS
D	DRAIN
DAFTS	DISSOLVED AIR FLOATION TANKS
DV	DENSE VEGETATION
DIA.	DIAMETER
DIM	DIMENSION
DWGS	DRAWINGS
DI OR DIP	DUCTILE IRON PIPE
DGW	DISINFECTED GROUNDWATER
DR	DOS RIOS
DCO	DOUBLE CLEAN OUT
E	EAST
EAS	EXCESS ACTIVATED SLUDGE
EXIST.	EXISTING
EA.	EACH
E.W.	EACH WAY
E.F.	EACH FACE
ELEC.	ELECTRIC
EL. OR ELEV.	ELEVATION
EP	EDGE OF PAVEMENT
ESM'T OR ESMT.	EASEMENT
FF	FINISHED FLOOR
FL	FLOOR LEVEL
FLG	FLANGE
FCA	FLANGED COUPLING ADAPTER
FLEX	FLEXIBLE
FT	FOOT OR FEET
GB	GRADE BREAK
GV	GATE VALVE
GW	GROUNDWATER
GST	GROUND STORAGE TANK
GVS	GAS VENT SCRUBBER
HMAC	HOT MIX ASPHALTIC CONCRETE.
HWS	HIGH WATER SURFACE
ID	INSIDE DIAMETER
INV	INVERT
IE	INVERT ELEVATION
JT	JOINT
KG	THOUSAND GALLON
LOC	LIMIT OF CONSTRUCTION
LT.	LEFT
L	LENGTH
LF	LINEAR FEET
LWS	LOW WATER SURFACE

ABBREVIATION	DESCRIPTION
MH	MANHOLE
MAX.	MAXIMUM
MECH	MECHANICAL
MJ	MECHANICAL JOINT
MIN.	MINIMUM
MX	MIXER
MG	MILLION GALLON
N	NORTH
NO. OR #	NUMBER
NPT	NATIONAL PIPE THREAD
NPW	NON POTABLE WATER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OVERFLOW
OHE	OVERHEAD ELECTRIC
P	PUMP
PVMT	PAVEMENT
±	PLUS OR MINUS
PT, OR	POINT
PNT	POINT OF CURVATURE
PC	POINT OF INTERSECTION
PI	POINT OF TANGENCY
PT	POINT OF VERTICAL INTERSECTION
PVI	PUMP STATION
PS	POUNDS PER SQUARE INCH
PSI	PRECAST CONCRETE CYLINDER PIPE
PCCP	OR PORTLAND CEMENT CONCRETE PAVEMENT
PG	PRESSURE GAUGE
PSF	POUND PER SQUARE FOOT
PL OR ℄	PROPERTY LINE
PRC	POINT OF REVERSE CURVATURE
PLMK	PIPELINE MARKER
POLY	POLYMER
POB	POINT OF BEGIN
PP	POWER POLE
PROP	PROPOSED
PVC	POLYVINYL CHLORIDE
PW	POTABLE WATER
PRV	PRESSURE REDUCING VALVE
R	RADIUS
RED	REDUCER
RED'G	REDUCING
REINF	REINFORCE
RCCP	REINFORCED CONCRETE CYLINDER PIPE
REQD	REQUIRED
RJ	RESTRAINED JOINT
ROW	RIGHT-OF-WAY
RT.	RIGHT
SA	SAMPLE
S	SOUTH
SBF	SLUDGE BLENDING FACILITIES
SBNT	SUBNATANT
SBT	SLUDGE BLENDING TANK
SHT	SHEET
SCB	SCRUBBER
SCV	SILENT CHECK VALVE
SD	STORM DRAIN
SF	SILT FENCE
SLG	SLUDGE
SPEC.	SPECIFICATION
SS, SST	STAINLESS STEEL
STD	STANDARD
STA.	STATION
STL	STEEL
SP	STOCK PILE
SSK	SECONDARY SKIMMINGS
SW	SURFACE WATER
SWBD	SWITCHBOARD
TBM	TEMPORARY BENCHMARK
TEL	TELEPHONE
TEMP.	TEMPORARY OR TEMPERATURE
T/P	TOP OF PIPE
TR	TRUNNION
TYP.	TYPICAL
T	TANK
UG	UNDERGROUND
UW	UTILITY WATER
VCP	VALVE CONTROL PANEL
VERT.	VERTICAL
VRU	VACUUM REGULATOR
VS	VENT SCRUBBER
WL	WATER LINE
WIF	WROUGHT IRON FENCE
WTR	SERVICE WATER
W	WEST
WWL	WASTEWATER LINE

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
11-12-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN FOUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

SHEET TITLE

CIVIL

SHEET INDEX, SYMBOLS AND ABBREVIATIONS

SCALE: AS SHOWN

SHEET G-02

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WATER AND WASTEWATER CONSTRUCTION NOTES

1. ALL RESTORATION AND REPLACEMENT OF EXISTING IMPROVEMENTS WITHIN WATER AND WASTEWATER EASEMENTS SHALL BE IN ACCORDANCE WITH CITY OF AUSTIN STANDARD SPECIFICATION REQUIREMENTS.
2. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO PROTECT ROADWAY FACILITIES AT ALL TIMES.

CONSTRUCTION PHASING

1. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL SUBMIT A DETAILED PROJECT CONSTRUCTION SCHEDULE IN EITHER MICROSOFT PROJECT OR SURE TRACK THAT DEMONSTRATES COMPLIANCE WITH THE TRAFFIC CONTROL PLAN AND THE PROPOSED CONSTRUCTION SEQUENCING.
2. PROJECT SEQUENCING SHALL BE IN ACCORDANCE WITH CITY OF AUSTIN STANDARD NOTES AND DETAILS: TREE PROTECTION AND ENVIRONMENTAL NOTES IN THIS PLAN SET, PROJECT SEQUENCING NOTES.

GENERAL CONSTRUCTION NOTES

1. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF AUSTIN MUST RELY ON THE DESIGN ENGINEER FOR THE ADEQUACY OF THE WORK.
2. CONTRACTOR TO PROVIDE DUST CONTROL DURING CONSTRUCTION. ANY DAMAGE TO EXISTING PAVEMENT OR IMPROVEMENTS ON PROPERTY ADJACENT TO THE CONSTRUCTION AREA SHALL BE RESTORED BY THE CONTRACTOR TO PRE-CONSTRUCTION CONDITION.
3. WORK IS PERMITTED FROM 8AM TO 5PM, MONDAYS THROUGH FRIDAYS.
4. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE STATE STATUES AND U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS (O.S.H.A.). COPIES OF O.S.H.A STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE. INFORMATION AND RELATED MATERIALS MAY BE OBTAINED FROM O.S.H.A. @ 611 EAST 6TH STREET. RPP, 303 AUSTIN, TEXAS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER CONTRACTORS AND UTILITIES IN THE VICINITY OF THIS PROJECT. IF THE CONTRACTOR BECOMES AWARE OF POSSIBLE CONFLICT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT INSPECTOR AND THE PROJECT MANAGER WITHIN 24 HOURS.
6. CONTRACTOR WILL BE RESPONSIBLE FOR COSTS INCURRED AS A RESULT OF UTILITY RELOCATIONS PERFORMED FOR CONTRACTOR'S CONVENIENCE AND FOR UTILITIES DAMAGED BY THE CONTRACTOR. REPAIRS TO UTILITIES DAMAGED BY CONSTRUCTION SHALL BE AT CONTRACTOR'S EXPENSE.
7. ANY EXISTING SIDEWALKS, CURBS, OR DRIVEWAYS DAMAGED BY THE CONTRACTOR SHALL BE REMOVED AND RESTORED WITH MATERIALS EQUAL TO OR BETTER THAN THE ORIGINAL AND SHALL BE AT THE CONTRACTOR'S EXPENSE UNLESS OTHERWISE NOTED.
8. ANY EXISTING SITE ELEMENTS IMPACTED BY THE CONTRACTOR SHALL BE REMOVED AND RESTORED WITH MATERIALS EQUAL TO OR BETTER THAN THE ORIGINAL AND SHALL BE AT THE CONTRACTOR'S EXPENSE UNLESS OTHERWISE NOTED.
9. EQUIPMENT AND MATERIALS SHALL BE STORED AT LOCATIONS SHOWN ON PLANS AND APPROVED BY THE OWNER'S REPRESENTATIVE.
10. UTILITY SERVICES SHALL BE MAINTAINED TO RESIDENCES AND BUSINESSES AT ALL TIMES. BEFORE DISCONNECTING ANY WATER OR WASTEWATER LINE, THE CONTRACTOR MUST NOTIFY THE CITY IN WRITING REQUESTING APPROVAL AND PROVIDE A DETAILED PLAN AT LEAST 48 HOURS IN ADVANCE, DESCRIBING AN ALTERNATE MEANS OF WATER OR WASTEWATER CONVEYANCE FOR THE INTERRUPTED SECTION.
11. ANY EXISTING IMPROVEMENTS, INCLUDING DRAINAGE FACILITIES, DISTURBED BY CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR AT HIS / HER EXPENSE TO A CONDITION EQUAL TO OR BETTER THAN PRECONSTRUCTION CONDITION.
12. ANY PORTION OF THIS PROJECT WHICH IS IMPROPERLY PLACED AND / OR CONFLICTS WITH ANY ROADWAY STRUCTURE SHALL BE REMOVED AND CORRECTLY PLACED. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL ASSOCIATED COSTS.
13. ALL ELEVATIONS ARE BASED ON USGS DATUM. HORIZONTAL DATUM IS TEXAS STATE PLANE COORDINATE SYSTEM. SEE PLANS FOR LOCATION OF BENCHMARKS.
14. SURVEY WAS COMPLETED BT MALDONADO-BURKETT INTELLIGENT TRANSPORTATION SYSTEMS, LLP ON JANUARY 17, 2018.
15. CONTRACTOR IS PERMITTED TO STORE FUEL ON SITE FOR THE SOLE PURPOSE OF OPERATING AND MAINTAINING THE TEMPORARY FLOW MANAGEMENT SYSTEM. THE CONTRACTOR SHALL UTILIZE TEMPORARY E/S CONTROLS, SECONDARY CONTAINMENT, AND SPILL PREVENTION FOR FUEL STORAGE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CITY OF AUSTIN REQUIREMENTS. THESE ITEMS SHALL BE APPROVED BY THE GPP COORDINATOR.

NOTES FOR CONSTRUCTION STAGING AREA

1. ALL CONSTRUCTION ACTIVITIES, INCLUDING MATERIAL STORAGE AND STAGING AREA, SHALL BE LOCATED WITHIN THE LIMITS OF CONSTRUCTION AS INDICATED ON THE DRAWINGS. ANY ADDITIONAL AREAS REQUIRED FOR CONSTRUCTION AT THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. REFER TO CITY OF AUSTIN STANDARD NOTES AND DETAILS: TREE PROTECTION AND ENVIRONMENTAL NOTES IN THIS PLAN SET, FOR FURTHER REQUIREMENTS.

TEMPORARY SPOILS AREA NOTES

1. NO SPOILS STORAGE IS ALLOWED WITHIN A CRITICAL WATER QUALITY ZONE OR 100-YEAR FLOOD PLAIN.
2. LOCATION, SIZE, HEIGHT, CAPACITY AND DURATION OF TEMPORARY SPOILS AREAS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO THE PRE CONSTRUCTION MEETING. CONTRACTOR SHALL HAVE PROPOSED LOCATIONS APPROVED BY OWNER'S REPRESENTATIVE AND CITY'S GENERAL PERMIT COORDINATOR WITHIN LIMITS OF CONSTRUCTION.
3. SPOILS ADJACENT TO TRENCHES SHALL BE USED FOR BACKFILL IMMEDIATELY UPON COMPLETION OF THE PIPE INSTALLATION AND ANY EXCESS BE REMOVED TO THE TEMPORARY SPOILS AREA DAILY.
4. SPOILS IN THE STOCKPILE AREAS SHALL HAVE SIDE SLOPES THAT DO NOT EXCEED 3:1. A SLOPE OF 1:1 IS ACCEPTABLE AS LIMITED BY AVAILABLE SPACE. POSITION SILT FENCE AT TOE OF SLOPE AS DICTATED BY SPACE REQUIREMENTS. CONTRACTOR TO COVER ALL SPOILS WITH A TARP TO RESTRICT SEDIMENT TRANSPORT DURING A RAIN EVENT. CONTRACTOR TO PROVIDE E/S CONTROLS IN ADDITION TO TARP.
5. ALL AREAS SHALL BE RESTORED TO ORIGINAL GRADE (AS IT EXISTED PRIOR TO CONSTRUCTION), UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

SEQUENCING OF CONSTRUCTION

THE SEQUENCE OF CONSTRUCTION IS INTENDED TO DEMONSTRATE A CONSTRUCTION APPROACH THAT MAINTAINS SANITARY SEWER SERVICE AND MINIMIZES IMPACTS. THIS SEQUENCE OF CONSTRUCTION DOES NOT IDENTIFY ALL CONSTRUCTION ITEMS OR STEPS, NOR IS THE ENGINEER RESPONSIBLE FOR THE ACTUAL CONSTRUCTION SEQUENCING UTLITIZED. CONTRACTOR IS TO DEVELOP A DETAILED CONSTRUCTION SEQUENCING PLAN AND CONSTRUCTION SCHEDULE FOR THE PROJECT.

PRIOR TO COMMENCING SITE WORK, CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. CONTRACTOR SHALL CONTACT RESIDENT PROJECT REPRESENTATIVE (RPR) AND CITY 48 HOURS PRIOR TO BEGINNING ANY WORK.
2. CONTRACTOR SHALL MARK LIMITS OF CONSTRUCTION BY FLAGGED LATHES OR SILT FINCE WHERE APPLICABLE.
3. CONTRACTOR SHALL ATTEND OFFICE PRESCONSTRUCTION CONFERENCE WITH THE OWNER, GENERAL PERMIT PROGRAM COORDINATOR AND RPR. INCLUDE REPRESENTATIVES FROM COA AND UTILITY AS APPROPRIATE.
4. CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL MEASURES AND TREE PROTECTION PRIOR TO CLEARING, GRUBBING, GRADING, EXCAVATING, ETC. AS INDICATED ON THE PLANS IN ACCORDANCE WITH THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL. NOTIFY GENERAL PERMIT PROGRAM COORDINATOR AND RPR PRIOR TO INSTALLATION.
5. CONTRACTOR SHALL SUBMIT A PLAN FOR KEEPING EXISTING FACILITIES IN OPERATION WHILE CONSTRUCTING PROPOSED FACILITIES. EXISTING FACILITY ACTIVITIES SHALL NOT CEASE DURING CONSTRUCTION. CONTRACTOR SHALL DEFINE ANY PLANNED PHASING OF CONSTRUCTION ACTIVITY. ADDITIONAL PRE-CONFERENCES (FOR PHASES) MAY BE REQUIRED BY THE GENERAL PERMIT OFFICE. PHASING, IF PROPOSED BY THE CONTRACTOR, WILL BE DELINEATED AND THE INFORMATION PRVOIDED TO THE GENERAL PERMIT OFFICE PRIOR TO THE FIELD PRECONSTRUCTION MEETING.
6. CONTRACTOR SHALL CONDUCT A SITE SUVEY AND LOCATE ALL EXISTING UTILITIES WITHIN LIMITS OF CONTRUCTION INCLUDING, BUT NOT LIMITED TO, EXISTING MANHOLES, PIPELINES, DUCT BANKS, AND PIPE CASING.

DURING SITE WORK, CONTRACTOR SHALL PERFORM THE FOLLOWING:

1. CONTRACTOR SHALL CONSTRUCT NEW SEWER MAIN, MANHOLES AND SEWER SERVICES PRIOR TO CONSTRUCTION OF WATER MAINS AND WATER SERVICES. INSTALL SEWER MAIN IN DOWNSTREAM TO UPSTREAM DIRECTION. PRIOR TO STARTING CONSTRUCTION, CONTRACTOR SHALL VERIFY TIE-IN LOCATIONS AND ELEVATIONS WITH EXISTING SEWER MAINS AND NOTIFY ENGINEER OF ANY DISCREPANCIES WITH PLAN ELEVATIONS.
2. CONTRACTOR SHALL BEGIN CONSTRUCTION OF WATER MAIN AND WATER SERVICES AFTER NEW SEWER MAIN, MANHOLES AND SEWER SERVICES ARE INSTALLED. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATIONS OF EXISTING WATER MAIN TIE-INS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES WITH PLANS.

GENERAL PERMIT PROGRAM GENERAL CONSTRUCTION NOTES

1. CONTRACTOR MUST OBTAIN UTILITY EXCAVATION PERMITS, FOR EACH RIGHT-OF-WAY EXCAVATED, FROM THE CITY OF AUSTIN PUBLICS WORKS DEPARTMENT - CONSTRUCTION INSPECTION DIVISION (512-974-7265) PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL PROVIDE A ONE CALL CENTER CONFIRMATION NUMBER.PRIOR TO ANY DIRECTIONAL DRILLING OR BORING, CONTRACTOR MUST CONTACT THE CITY OF AUSTIN PUBLICS WORKS DEPARTMENT - CONSTRUCTION INSPECTION DIVISION (512-974-7161) TO SCHEDULE A MANDATORY PRE-BORE INSPECTION.
2. CITY OF AUSTIN UTILITIES REQUIRE A MINIMUM 2' (FOOT) VERTICAL AND 5' (FOOT) HORIZONTAL SEPARATION DISTANCE, MEASURED FROM OUTER DIAMETER TO OUTER DIAMETER. ANY VARIANCE FROM CITY UTILITIES MUST BE OBTAINED IN WRITING AND SUBMITTED TO THE CITY OF AUSTIN PUBLICS WORKS DEPARTMENT - CONSTRUCTION INSPECTION DIVISION (512-974-7265).ALL STREET TRENCH REPAIRS ARE TO BE DONE IN ACCORDANCE WITH CITY OF AUSTIN STANDARD DETAILS FROM THE 1100 SERIES.
3. ALL TRENCH REPAIR IN UNFINISHED SURFACES TO BE DONE IN ACCORDANCE WITH CITY OF AUSTIN STANDARD DETAIL 510S-5.
4. FOR EXCAVATION WITHIN 100 FEET OF A MOONLIGHT TOWER OR WITHIN 100 FEET OF A GUY WIRE SUPPORTING A MOONLIGHT TOWER, EXCAVATION OR CONSTRUCTION PLANS AND SEQUENCING INFORMATION THAT DEMONSTRATES THAT THE MOONLIGHT TOWER WILL BE ADEQUATELY PROTECTED FROM DAMAGE DURING EXCAVATION OR CONSTRUCTION MUST BE SUBMITTED TO CITY OF AUSTIN - PUBLIC WORKS DEPARTMENT - AUSTIN ENERGY (512-505-7611).
5. VERIFY THE LOCATION OF UNDERGROUND UTILITIES AT LEAST 100' (FEET) IN ADVANCE OF ALL PROPOSED UTILITY CROSSINGS, AND ALSO LOCATIONS WHERE THE PROPOSED FACILITIES ARE DEPICTED TO RUN PARALLEL TO AND WITHIN FIVE FEET OF EXISTING FACILITIES.
6. CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS AT 974-7161 PRIOR TO THE INSTALLATION OF ANY FACILITY WITHIN A DRAINAGE EASEMENT OR STREET R.O.W. THE METHODS OF PLACEMENT AND COMPACTION OF BACKFILL IN THE CITY'S R.O.W. MUST BE APPROVED PRIOR TO START OF THE BACKFILL OPERATION.
7. FOR SLOPES OR TRENCHES MORE THAN FIVE (5) FEET IN DEPTH, A NOTE MUST BE ADDED TO THE GENERAL CONSTRUCTION NOTES STATING THAT: "ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD SPECIFICATIONS ITEM NO. 509 AND APPLICATION REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)". COPIES OF THE OSHA STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE, INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 611 E. 6TH STREET, AUSTIN, TEXAS.

DEVELOPER INFORMATION

OWNER:_____ADDRESS:_____

PHONE:_____

NAME_____PHONE_____

OWNER'S REPRESENTATIVE RESPONSIBLE FOR PLAN ALTERATIONS

NAME_____PHONE_____PERSON

OR FIRM RESPONSIBLE FOR EROSION/SEDIMENTATION CONTROL MAINTENANCE.

NAME_____PHONE_____PERSON

OR FIRM RESPONSIBLE FOR TREE/NATURAL AREA PROTECTION MAINTENANCE.

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
11-12-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN FOUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

SHEET TITLE

CIVIL

GENERAL NOTES

SCALE: AS SHOWN

SHEET G-03

3 OF 55

GENERAL NOTES

ALL RESPONSIBILITY FOR THE ADEQUECY OF THESE PLANS REMAINS WITH THE ENGINEER. APPROVAL OF THESE PLANS BY THE CITY OF AUSTIN DOES NOT REMOVE THESE RESPONSIBILITIES.

REVIEWED BY AUSTIN WATER APPLIES ONLY TO FACILITIES WITHIN PUBLIC STREETS OR PUBLIC UTILITY EASEMENTS. ALL OTHER WATER AND WASTEWATER FACILITIES INSIDE PRIVATE PROPERTY ARE UNDER THE JURISDICATION OF BUILDING INSPECTIONS.

INSPECTION NOTES

Please contact CID Inspections for arrangements for payment of inspection fees and job assignment for Inspection of the public utilities to this site. Inspection fees must be paid before any Pre-construction meeting can be held.

PROJECT INFORMATION[1]

AW INFRASTRUCTURE INFORMATION

PROPOSED PRODUCT TYPE (TO BE INSTALLED)	LENGTH OF PIPE (L.F.)	SIZE OF PIPE (INCH)	NO. OF SERVICES
WATER MAIN	2,790	8-INCH	NA
WASTEWATER MAIN	2,770	8-INCH	NA
RECLAIMED WATER MAIN	NA	NA	NA
WATER SERVICE	NA	1-INCH	46
WASTEWATER SERVICE	NA	6-INCH	50
RECLAIMED WATER SERVICE	NA	NA	

EXPAND OR REDUCE TABLE AS NEEDED*
THE INFORMATION INCLUDED IN THIS TABLE ARE APPROXIMATE VALUES ESTIMATED BASED ON GENERAL ENGINEERING GUIDELINES

STANDARD CONSTRUCTION NOTES November 23, 2017

1. THE CITY STANDARD CONSTRUCTION SPECIFICATIONS CURRENT AT THE TIME OF BIDDING SHALL COVER MATERIALS AND METHODS USED TO DO THIS WORK.
2. CONTRACTOR MUST OBTAIN A STREET CUT PERMIT FROM AUSTIN TRANSPORTATION DEPARTMENT, RIGHT OF WAY MANAGEMENT DIVISION BEFORE BEGINNING CONSTRUCTION WITHIN THE RIGHT-OF-WAY OF A PUBLIC STREET OR ALLEY.
3. AT LEAST 48 HOURS BEFORE BEGINNING ANY WATER AND WASTEWATER CONSTRUCTION IN PUBLIC R.O.W. OR PUBLIC EASEMENT, THE CONTRACTOR SHALL NOTIFY AUSTIN TRANSPORTATION INSPECTION OR DEVELOPMENT SERVICES DEPARTMENT (DSD) INSPECTIONS AT THE NUMBER INDICATED ON THE PLANS BY THE AW PLAN REVIEWER.
4. THE CONTRACTOR SHALL CONTACT THE AUSTIN AREA "ONE CALL" SYSTEM AT 1-800-344-8377 FOR EXISTING UTILITY LOCATIONS PRIOR TO ANY EXCAVATION IN ADVANCE OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES TO BE EXTENDED, TIED TO, OR ALTERED, OR SUBJECT TO DAMAGE/INCONVENIENCE BY THE CONSTRUCTION OPERATIONS. THE CITY OF AUSTIN WATER AND WASTEWATER MAINTENANCE RESPONSIBILITY ENDS AT R.O.W./EASEMENT LINES.
5. NO OTHER UTILITY SERVICE/APPURTENANCES SHALL BE PLACED NEAR THE PROPERTY LINE, OR OTHER ASSIGNED LOCATION DESIGNATED FOR WATER AND WASTEWATER UTILITY SERVICE THAT WOULD INTERFERE WITH THE WATER AND WASTEWATER SERVICES.
6. THE CITY SPECIFICATION ITEM 509S WILL BE REQUIRED AS A MINIMUM TRENCH SAFETY MEASURE.
7. ALL MATERIALS TESTS ORDERED BY THE OWNER FOR QUALITY ASSURANCE PURPOSES, SHALL BE CONDUCTED BY AN INDEPENDENT LABORATORY AND FUNDED BY THE OWNER IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 18945.04.
8. PRESSURE TAPS SHALL BE ALLOWED ON A CASE BY CASE BASIS, AS DETERMINED BY THE DIRECTOR'S DESIGNEE. NORMALLY PRESSURE TAPS 4 INCHES AND LARGER SHALL BE ALLOWED IN THE FOLLOWING CASES: A) A TEST SHUT OUT INDICATES AN ADEQUATE SHUT OUT TO PERFORM THE WORK IS NOT FEASIBLE B) MORE THAN 30 CUSTOMERS OR A SINGLE CRITICAL CUSTOMER (AS DEFINED BY AUSTIN WATER) WOULD BE IMPACTED BY THE SHUT OUT OR C) THE EXISTING WATER LINE WARRANTS IT.
9. THRUST RESTRAINT SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 510.3(22) AND SPL WW 27-A and WW 27-F.
10. FIRE HYDRANTS SHALL BE SET IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEM 8118.4 AND SHALL BE PAINTED FLYHT ALUMINUM OR EQUAL. FIRE HYDRANTS AND ASSOCIATED VALVES, TEN (10) YEARS AND OLDER WILL BE REQUIRED TO BE REPLACED WITH A NEW FIRE HYDRANT AND APPERTENUNANCES.
11. WATER LINE TESTING AND STERILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARD SPECIFICATION ITEMS 510.3 (27)-(29). FORCE MAIN PRESSURE TESTING SHALL BE CONDUCTED AND FALL UNDER THE SPECIFICATIONS AS WATER LINES (PRESSURE PIPE) OR AT THE PRESSURES SHOWN ON THE APPROVED PLANS.
12. ALL MATERIAL USED ON THIS PROJECT MUST BE LISTED ON THE STANDARD PRODUCTS LISTING. ANY MATERIAL NOT LISTED HAS TO GO THROUGH THE REVIEW OF THE STANDARDS COMMITTEE FOR REVIEW AND APPROVAL PRIOR TO START OF PROJECT. TESTING AND EVALUATION OF PRODUCTS ARE REQUIRED BEFORE APPROVAL WILL BE GIVEN ANY CONSIDERATION.
13. WHEN WATER SERVICES ARE DAMAGED AND THE SERVICE MATERIAL IS PE, THE LINE SHALL BE REPAIRED ONLY BY HEAT FUSION WELD OR REPLACED THE FULL LENGTH WITH TYPE K COPPER MATERIAL. ANY TIME PB IS DAMAGED OR TAMPERED WITH IN ANY WAY, THE SERVICE LINE SHALL BE REPLACED FULL LENGTH WITH TYPE K COPPER MATERIAL. NOTE: FULL LENGTH IS FROM CORPORATION STOP TO METER.
14. WHEN AN EXISTING WATERLINE SHUT OUT IS NECESSARY AND POSSIBLE, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR WHO WILL THEN NOTIFY AUSTIN WATER DISPATCH AND THE AFFECTED CUSTOMERS A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE.
15. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION INSPECTOR SO THAT HE CAN NOTIFY THE AUSTIN WATER AT 972-0000 AT A MINIMUM OF 72 HOURS PRIOR TO RELOCATING ANY DOMESTIC OR FIRE DEMAND WATER METERS. THE CONTRACTOR SHALL CAREFULLY REMOVE ALL METERS AND METERS BOXES THAT ARE INDICATED TO BE RELOCATED OR SALVAGED. THE CONTRACTOR SHALL INSTALL THE REMOVED METER OR CITY PROVIDED METER AT THE NEW LOCATION INDICATED ON THE CONSTRUCTION PLANS.
16. WATER AND WASTE WATER SERVICES WILL NEED TO BE REPLACED UP TO THE MAIN. REPAIR COUPLINGS ARE NOT ALLOWED ON NEW INSTALLTIONS.
17. ALL MANHOLES IN UNPAVED AREAS PROVIDING DIRECT ACCESS TO A WASTEWATER LINE SHALL BE WATERTIGHT AND BEAR THE WORDING AND INSIGNIA FOR THE CITY OF AUSTIN.
18. THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL LOCATIONS OF EXISTING UTILITIES, BELOW GROUND AND OVERHEAD, PRIOR TO STARTING ONSITE UTILITY WORK.
19. ALL WATER AND WASTEWATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH THE SEPARATION DISTANCES INDICATED IN CHAPTER 290 - DRINKING WATER STANDARDS, CHAPTER 217 - DESIGN CRITERIA FOR SEWERAGE SYSTEMS AND CHAPTER 210 - DESIGN CRIERIA FOR RECLAIMED SYSTEMS OF TCEQ RULES.
20. CONTRACTOR'S PERSONNEL THAT PERFORM BUTT FUSION AND ELECTROFUSION ON OR TO HDPE PIPE AND FITTINGS MUST HAVE CURRENT QUALIFICATION TRAINING CERTIFICATE ISSUED BY MCELROY OR COMPARABLE TRAINING PROGRAM.
21. SHOP DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER, REGISTERED IN THE STATE OF TEXAS, SHALL BE SUBMITTED FOR AUSTIN WATER APPROVAL FOR LARGE DIAMETER PRE-CAST MANHOLES, JUNCTION BOXES, WET WELLS, AND SIMILAR STRUCTURES. THE SHOP DRAWINGS SHALL INCLUDE FLOWLINE ELEVATIONS OF ALL INCOMING AND OUTGOING PIPES, ELEVATION OF TRANSITION FROM LARGE DIAMETER SECTIONS TO 48" ID SECTION, TOP OF MANHOLE ELEVATION, SURROUNDING GROUND ELEVATION, AS WELL AS SPECIAL CONSTRUCTION CONSIDERATIONS THAT ARE SPECIFIED IN THE CONTRACT DRAWINGS. THE SUBMITTAL WILL NEED TO BE INCLUDED IN THE PLAN SET AS THRU A CORRECTION PROCESS.
22. VALVE STEM EXTENSIONS SHALL CONSIST OF A SINGLE PIECE OF IRON ROD OF THE REQUIRED LENGTH WITH A SOCKET ON ONE END AND NUT ON THE OTHER.
23. ALL POTABLE WATER SYSTEM COMPONENTS INSTALLED AFTER JANUARY 4, 2014, SHALL BE ESSENTIALLY "LEAD FREE" ACCORDING TO THE US SAFE DRINKING WATER ACT. EXAMPLES ARE VALVES (CORPORATION STOP, CURB STOP, AND PRESSURE REDUCING), NIPPLES, BUSHINGS, PIPE, FITTINGS, BACKFLOW PREVENTERS AND FIRE HYDRANTS. TAPPING SADDLES AND 2 INCH AND LARGER GATE VALVES ARE THE ONLY COMPONENTS EXEMPT FROM THIS REQUIREMENT. COMPONENTS THAT ARE NOT CLEARLY IDENTIFIED BY THE MANUFACTURER AS MEETING THIS REQUIREMENT EITHER BY MARKINGS ON THE COMPONENT OR ON THE PACKAGING SHALL NOT BE INSTALLED.
24. ALL FIRE HYDRANTS AND VALVES THAT ARE TO BE ABANDONED SHALL BE REMOVED, SALVAGED AND RETURNED TO AUSTIN WATER. NOTICE SHOULD BE GIVEN 48 HOURS PRIOR TO RETURN TO: PIPELINE OPERATIONS DISTRIBUTION SYSTEM MAINTENANCE, VALVES AND HYDRANT SERVICES, SUPERVISING AW PIPELINE TECHNICIAN AT 512-972-1133
25. ALL EXISTING WATER METERS IDENTIFIED TO BE RELOCATED OR ABANDONED AT THE DEVELOPMENT, SHALL BE REMOVED FROM THE METER BOX PRIOR TO CONSTRUCTION AND GIVEN IMMEDIATELY TO THE DSD INSPECTOR.
26. THE ENGINEER SHALL CALL OUT THE SIZE, TYPE AND USE (DOMESTIC OR IRRIGATION) OF ALL EXISTING WATER METERS TO BE RELOCATED OR REPURPOSED. WATER METER NUMBERS WILL NOT BE REQUIRED TO BE PLACED ON THE PLAN SHEET. A SEPARATE AUSTIN WATER TAPS OFFICE FORM WILL BE USED TO PROVIDE RELEVANT INFORMATION FOR THE EXISTING INFORMATION ON EXISTING METERS TO RECEIVE APPROPRIATE CREDITS. THIS FORM SHALL BE DIRECTLY SUBMITTED TO AUSTIN WATER TAPS OFFICE FOR REVIEW AND PROCESSING.
27. NO CONNECTION MAY BE MADE BETWEEN THE PRIVATE PLUMBING AND AUSTIN WATER INFRASTRUCTURE UNTIL A CITY APPROVED WATER METER HAS BEEN INSTALLED.
28. ALL GRAVITY LINES SHALL BE INSTALLED DOWNSTREAM TO UPSTREAM.
29. METER BOXES AND CLEAN OUTS SHALL NOT BE LOCATED WITHIN PAVED AREAS SUCH AS DRIVEWAYS AND SIDEWALKS.
30. PROTECTED STREET STATUS IS SUBJECT TO CHANGE OVER TIME. IT IS THE OWNER'S RESPONSIBILITY TO CONFIRM THE STREET STATUS PRIOR TO CONSTRUCTION AS PROTECTED STREET STATUS WILL DIRECTLY IMPACT THE CONSTRUCTION COSTS. IF PROTECTED STREETS ARE PROPOSED TO BE DISTURBED, APPROVAL FROM THE STREET AND BRIDGE DIVISION OF THE TRANSPORTATION DEPARTMENT IS REQUIRED.

DOES THIS PROJECT NEED AULCC REVIEW ?

☒YES

☐NO

IF YES, PLEASE PROVIDE UCC# 180412-04-04

NOTE: IF THE PROJECT IS LOCATED WITHIN FULL PURPOSE JURISDICTION, A RIGHT-OF-WAY REVIEW, THROUGH THE AULCC PERMIT PROCESS WILL BE REQUIRED.

AW EXPIRATION STAMP

THREE YEARS FROM THE DATE OF SIGN-OFF

UTILITY CRITERIA MANUAL WAIVER SUMMARY NOTES AND EXCEPTION GUIDELINES

SHEET NO.	DESCRIPTION	APPROVAL
C-10 AND C-11	WAIVER TO UCM SECTION 2.9.C.4: THE WASTEWATER SERVICE LINES BETWEEN STA 12+58.06 TO 17+76.13 DO NOT MEET THE REQUIREMENT TO BE AT LEAST 2' BELOW THE PROPOSED WATERLINE. PROPOSED SEWER MAIN AT THIS LOCATION COULD NOT BE LOWERED DUE TO THE SEPARATION REQUIRED AT CROSSING WITH THE 54" WATER MAIN AT STA 17+64.42. SERVICE LINES ARE TO BE CONSTRUCTED FOR 150 PSI PRESSURE-RATED PIPING AND CEMENT-STABILIZED IN SAND.	P.E.
C-01	WAIVER TO UCM SECTION 2.9.4.D.7: THE WATER LINE AT STA 2 +84.20 HAS LESS THAN 4' OF BURIED COVER. THE PIPE DEFLECTION AT THIS LOCATION HAS BEEN CALCULATED TO BE 0.85% WHICH IS WITHIN ALLOWABLE LIMITS BASED ON AWWA M23. SEE SHEET G-07 FOR CALCULATIONS.	P.E.
C-10 AND C-11	WAIVER TO UCM SECTION 2.9.4.B.5: THE WASTEWATER LINE BETWEEN STA 12+58.06 AND 14+62.00 HAS A SLOPE OF 0.33%. THE RESULTING VELOCITY DURING PEAK DRY WEATHER FLOW IS 3.18 FEET PER SECOND.	P.E.

WAIVER:

COA AUSTIN WATER APPROVES WAIVER TO UTILITY CRITERIA MANUAL SECTIONS 2.9.4.C.4, 2.9.D.7, AND 3.9.4.B.5 FOR THE UTILITY RELOCATION/ADJUSTMENTS SPECIFIC TO THE SCOPE OF THIS PROJECT UNDER THE AUTHORITY OF THE UTILITY DEVELOPMENT SERVICES DIVISION, PIPELINE ENGINEERING.

SIGNATURE: P.E. DATE: December 03, 2020

EXISTING SERVICE LINES THAT DO NOT MEET HORIZONTAL SEPARATION REQUIREMENTS

SHEET NO.	ADDRESS	STATIONING
C-02 C-09	3200 BRYKER DRIVE	STA 8+40.02
C-03 C-10	3206 BRYKER DRIVE 3209 BRYKER DRIVE	STA 9+97.42
C-03 C-10	3208 BRYKER DRIVE 3211 BRYKER DRIVE	STA 10+61.22
C-03 C-10	3301 BRYKER DRIVE 3302 BRYKER DRIVE	STA 12+64.13
C-04 C-11	3309 BRYKER DRIVE 3310 BRYKER DRIVE	STA 15+21.73
C-06 C-12	1702 W 34TH STREET	STA 20+89.76
C-05 C-13	1802 W 34TH STREET	STA 26+39.60

REVIEWED
December 03, 2020
Austin Water
Type Name Here

CITY OF AUSTIN APPROVAL BLOCK

CITY OF AUSTIN
AUSTIN WATER
October 2019
VERSION 1.0
STANDARD NO.
1 OF 1

NOTE:DO NOT REMOVE THE TITLE BLOCK

AUSTIN WATER GENERAL INFORMATION AND CONSTRUCTION NOTES FOR CAPITAL IMPROVEMENT PROJECTS

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
12-3-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN FOUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: N.CANDELAS
CHECKED BY: H.STEED

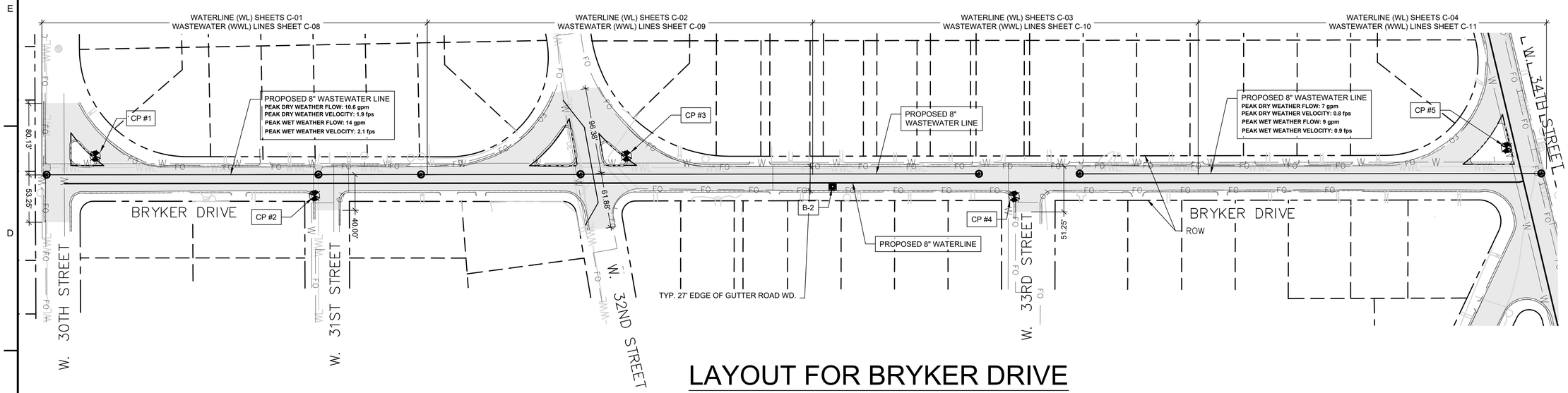
SHEET TITLE

CIVIL

AUSTIN WATER GENERAL INFORMATION AND CONSTRUCTION NOTES

SCALE: AS SHOWN

SHEET G-04
4 OF 55



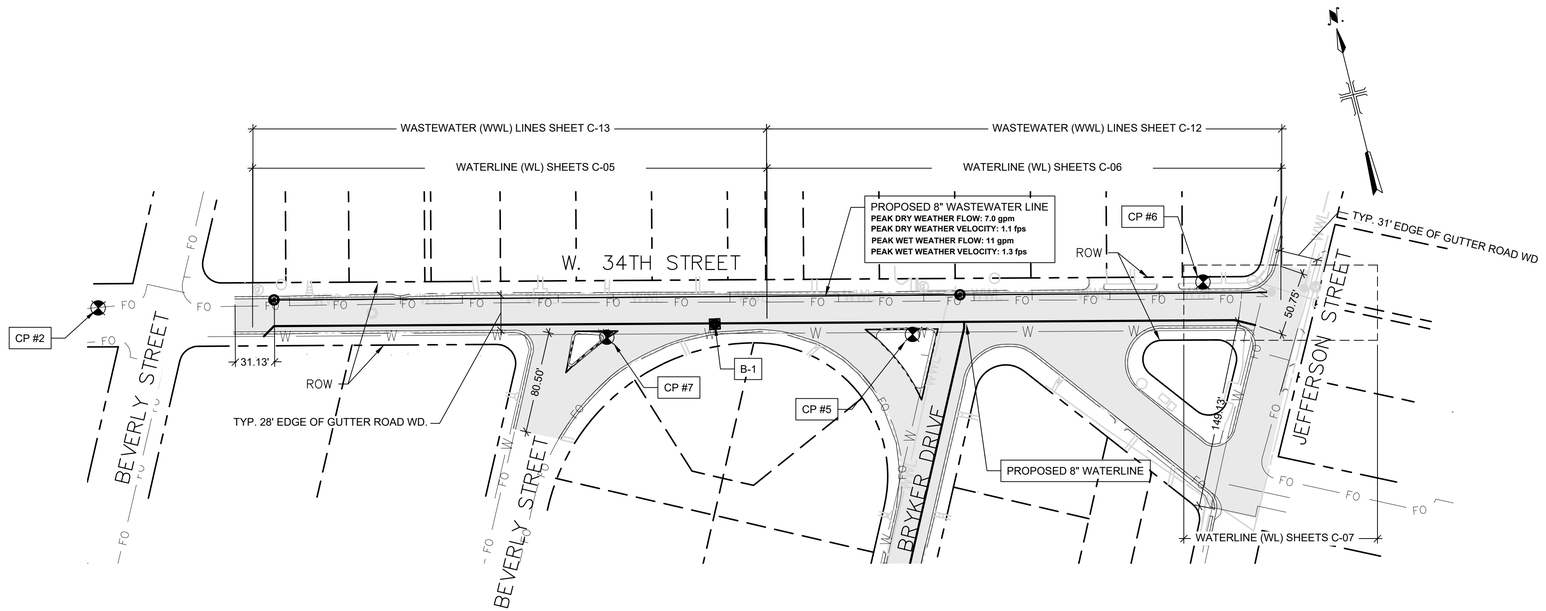
LAYOUT FOR BRYKER DRIVE

- NEW MILLING AND OVERLAY LIMITS

NOTES

1. MILLING AND OVERLAY LIMITS TO SERVE AS APPROX. LIMITS OF CONSTRUCTION.
2. DO NOT PAVE OVER ANY AUSTIN WATER SURFACE FEATURES (MANHOLES COVERS, VALVES, ETC.) WHICH WOULD HINDER LONG-TREM OPERATIONS & MAINTENANCE OF SAID FEATURES.
3. COMPLETE 11,500 SQ. YDS. OF MILLING AND OVERLAY AS PER CITY OF AUSTIN STANDARD SPECIFICATION ITEM NO 315S.

REVIEWED
December 02, 2020
Austin Water
Type Name Here



LAYOUT FOR W 34TH STREET

60 0 60 120
SCALE: 1" = 60'

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED PROFESSIONAL ENGINEER
11-12-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

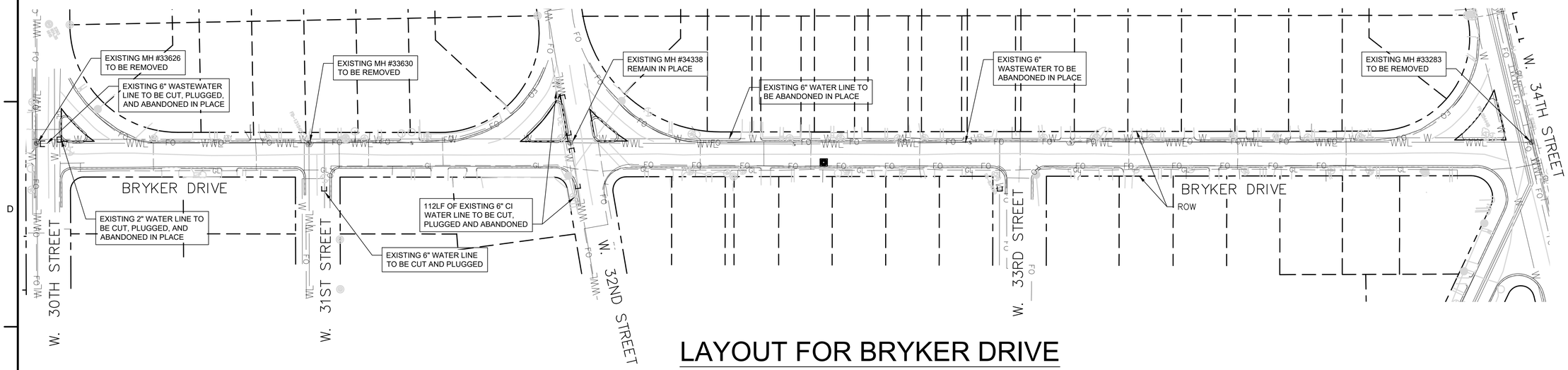
SHEET TITLE

CIVIL

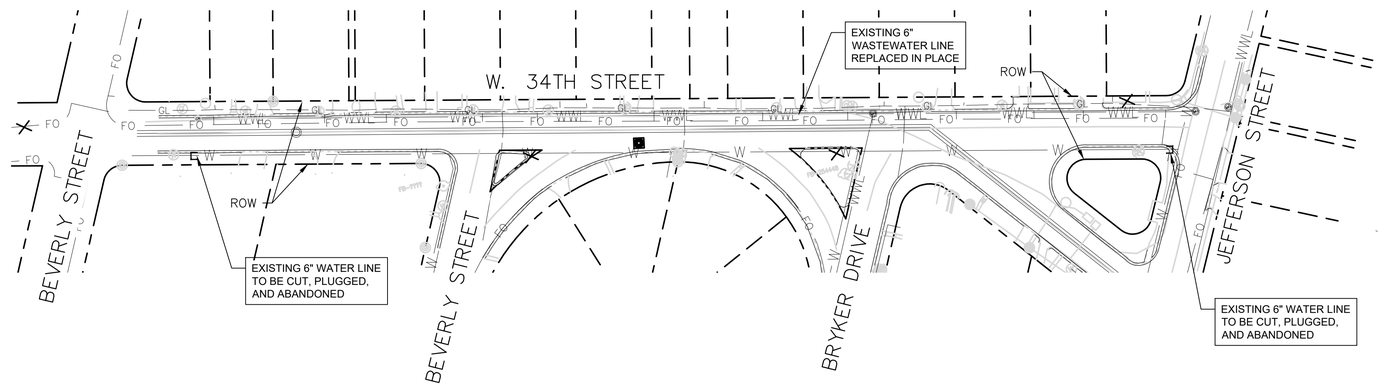
SITE MILLING AND OVERLAY LAYOUT PLAN

SCALE: AS SHOWN

SHEET G-05
5 OF 55



LAYOUT FOR BRYKER DRIVE



LAYOUT FOR W 34TH STREET

SCALE: 1" = 60'

REVIEWED
December 02, 2020
Austin Water
Type Name Here

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
11-12-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

SHEET TITLE

CIVIL

EXISTING UTILITIES ABANDONMENT LAYOUT PLAN

SCALE: AS SHOWN

SHEET G-06
6 OF 55

Table 1

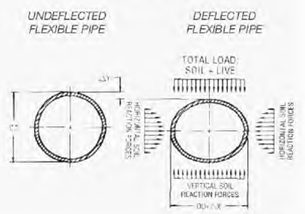
MAXIMUM RECOMMENDED DIAMETRIC DEFLECTION

PVC Pressure Pipes	5%
PVC Sewer / Drain Pipes	7½%
PVC Electrical Conduits	5%

(JM Eagle, 2009)

Figure 1

FLEXIBLE PIPE DEFLECTION



(JM Eagle, 2009)

Iowa Equation

$$\%\frac{\Delta Y}{D} = \frac{k(T_L W_E + W_L + W_S)}{0.149PS + 0.061E'}(100)$$

where:

$\%\frac{\Delta Y}{D_o}$	=	vertical deflection, %
ΔY	=	vertical deflection or change in diameter, in.
D	=	diameter, in.
k	=	bedding constant, use 0.1
T_L	=	time-lag factor, use 1.0, 1.5, or 2.0
W_E	=	earth load pressure, psi
W_L	=	live load pressure, psi
W_S	=	surcharge pressure, psi
PS	=	pipe stiffness, lbf/in./in.
E'	=	modulus of soil reaction, psi

(AWWA M23, 2020)

Selection of Factors

- D = 8 in. *(see drawings)*
- k = 0.1
- T_L = 1.5 *(conservative estimate)*
- W_E = 24 psi
  Calculated using AWWA M23 Equation 4-5

Prism Load: $W_p = Hw\,D$ (lb/lin ft) (Eq 4-3)

where:

P	=	pressure caused by soil weight at depth H, lb/ft²
w	=	unit weight of soil, lb/ft³
H	=	depth at which soil pressure is desired, ft
D	=	pipe diameter

The prism load can be converted to lb/in² for W_E as follows:

Earth Load Pressure: $W_E = \frac{W_p}{144}$ (Eq 4-5)

(AWWA M23, 2020)

- H = 3.6 ft *(see drawings)*
- w = 120 pcf *(see Geotechnical Report)*
- D = 8 in *(see drawings)*

- W_L = 6.36 psi
  Interpolated from AWWA M23 Table 4-2; assuming HS20 maximum live load
- W_S = 0 psi
  NO SURCHARGE LOADS
- PS = 815 lbf/in/in
  From AWWA M23 Table 4-3
  PVC DR14 *pipe (see drawings)*
- E' = 6,000 psi
  From AWWA M23 Table 4-4
  Class 1 Crushed Rock Pipe Bedding (Specification 510.3)

$$\%\,\Delta Y = \frac{0.1\,(\ 1.5 \times 24.1\ + 6.36 + 0)}{(0.149\ \times 815\ + 0.061\ \times\ 6000\ )} \times 100 = 0.85\%$$

Table 4-2 AASHTO HS20, HS25, and Cooper E80 live loads (psi)

AASHTO Live Loads		HS20		HS25		Cooper E80 Live Loads			
Depth		W_L		W_L		Depth		W_L	
ft	*m*	*psi*	*kPa*	*psi*	*kPa*	*ft*	*m*	*psi*	*kPa*
2	0.6	13.4	92	16.8	116	3	0.9	16	110
2.5	0.8	9.7	67	12.2	84	4	1.2	14.1	97
3	0.9	7.4	51	9.2	63	5	1.5	12.2	84
4	1.2	4.7	32	5.9	41	6	1.8	10.5	72
5	1.5	3.4	23	4.2	29	7	2.1	9	62
6	1.8	2.6	18	3.2	22	8	2.4	7.7	53
8	2.4	1.6	11	2	14	10	3.0	5.7	39
10	3.0	1.1	7.6	1.4	10	12	3.7	4.6	32
12	3.7	0.8	5.5	1.1	7.6	15	4.6	3.4	23
15	4.6	0.6	4.1	0.7	4.8	20	6.1	2.2	15
20	6.1	0.4	2.8	0.5	3.4	25	7.6	1.5	10
28	8.5	0.2	1.4	0.25	1.8	30	9.1	1.1	7.6
40	12.2	0.1	0.7	0.1	0.7	40	12.2	0.6	4.1

Note: Cooper E80 as defined by AREMA (American Railway Engineering and Maintenance-of-Way Association) in its Manual of Railway Engineering.

(AWWA M23, 2020)

Table 4-3 PVC and PVCO pipe stiffness

PVC Stiffness Min. E = 400,000 psi		PVCO Stiffness Min. E = 500,000 psi	
DR	*lbf/in./in.*	*Pressure Class*	*lbf/in./in.*
51	14	PR160, IPS	24
41	28	PR200, IPS	48
32.5	57	PR250, IPS	98
27.5	96	PR150, CIOD	21
26	115	PR200, CIOD	48
25	129	PR250, CIOD	98
21	224	PC165, CIOD	28
18	364	PC235, CIOD	81
14	815	PC305, CIOD	178

(AWWA M23, 2020)

Table 4-4 *E'* values, psi

Soil Group (USCS)	Uncompacted	Compacted	
		Moderate 85–90% compaction	High ≥95% compaction
Class I Crushed rock	1,000	6,000	
Class II GW GP SW SP	500	2,000	4,000
Class III GC GM SC SM CL ML CL ML	200	1,000	2,500
Class IV CL ML	100	400	1,500
Class V CH MH OH OL Pt	Do not use		

USCS: Unified Soil Classification System
Notes:
1. Soil Classification in accordance with ASTM D2487.
2. Percent compaction is based on ASTM D698.
3. For information on soil classes, see Table 4-1.
4. *E'* values only valid for cover depths of 50 ft or less. The values must be used with a prism load. These values are only valid for estimating initial deflections. A time-lag factor must be used to predict long-term deflections.

(AWWA M23, 2020)

References

Tables are equations referenced are from the following sources:

"Depth of Burial for PVC Pipe" JMEagle. (2017,12 3). Retrieved from www.jmeagle.com: www.jmeagle.com/sites/default/files/TB06DepthofBurialforPVC.pdf

"PVC Pipe – Design and Installation" AWWA Manual of Water Supply Practices – Third Edition (2020).

REVIEWED
December 02, 2020
Austin Water
Type Name Here

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
11-12-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

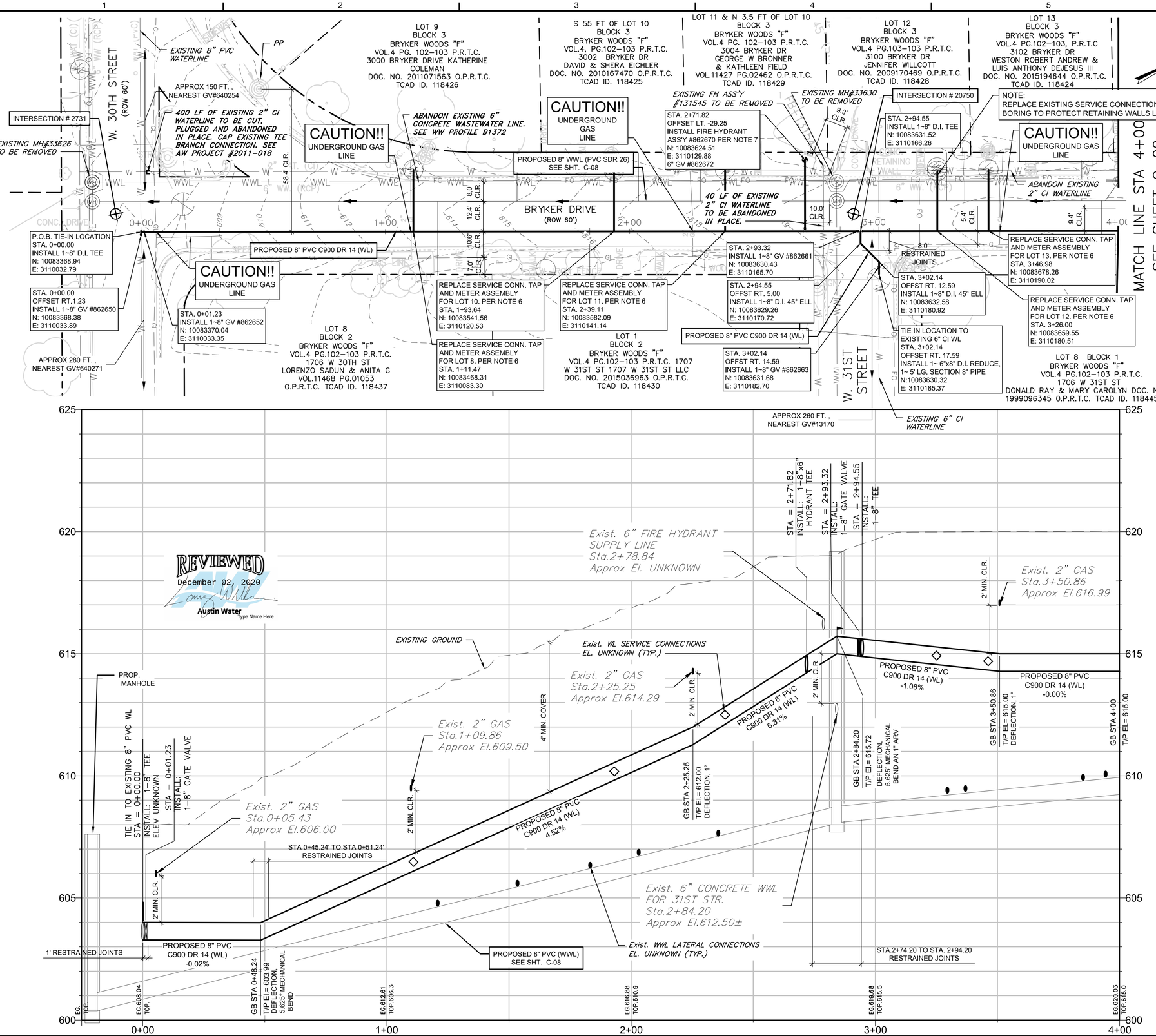
SHEET TITLE

CIVIL

DEPTH OF COVER CALCULATION DETAILS

SCALE: AS SHOWN

SHEET G-07
7 OF 55



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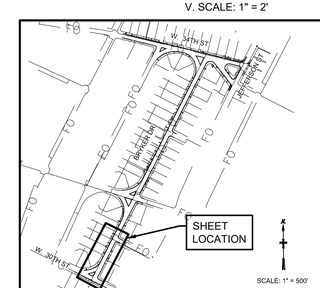
V. SCALE: 1" = 2'



KEY PLAN

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED PROFESSIONAL ENGINEER
11-12-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

SHEET TITLE

CIVIL

PROPOSED 8-INCH WATER LINE PLAN AND PROFILE STA. 0+00 to 4+00

SCALE: AS SHOWN

SHEET C-01

8 OF 55

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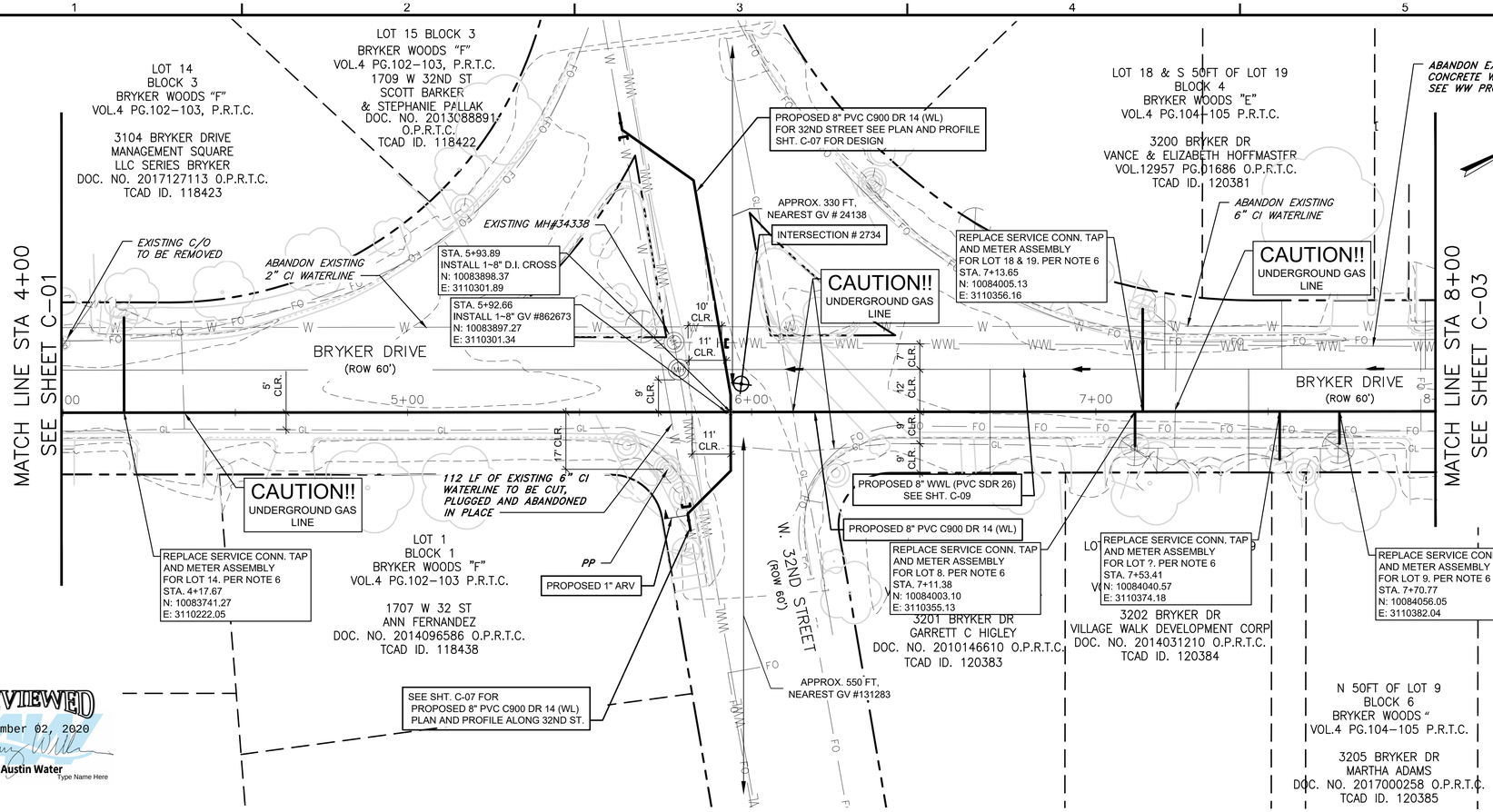

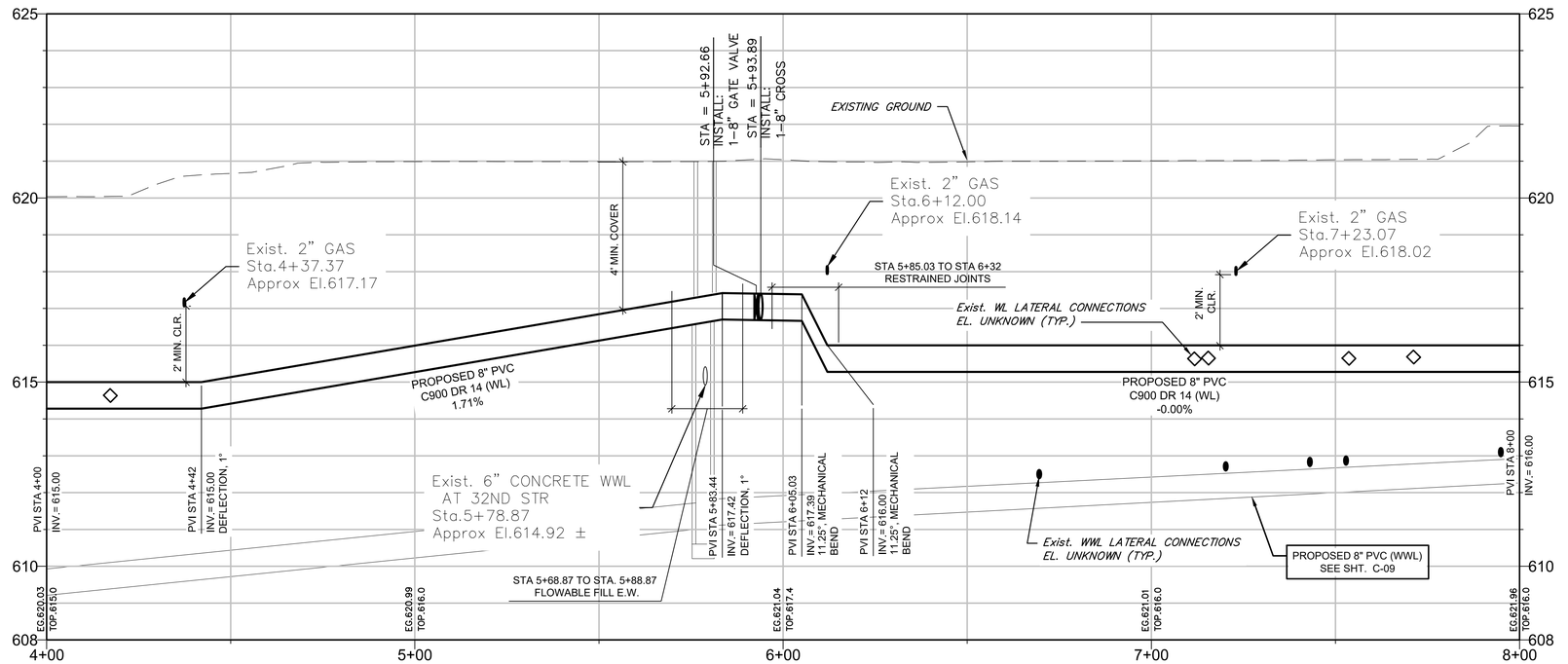

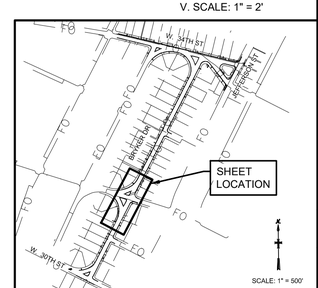

REVIEWED
December 02, 2020
Austin Water
Type Name Here

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0 10' 20' 40'
H. SCALE: 1" = 20'

0 1' 2' 4'
V. SCALE: 1" = 2'

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
11-12-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

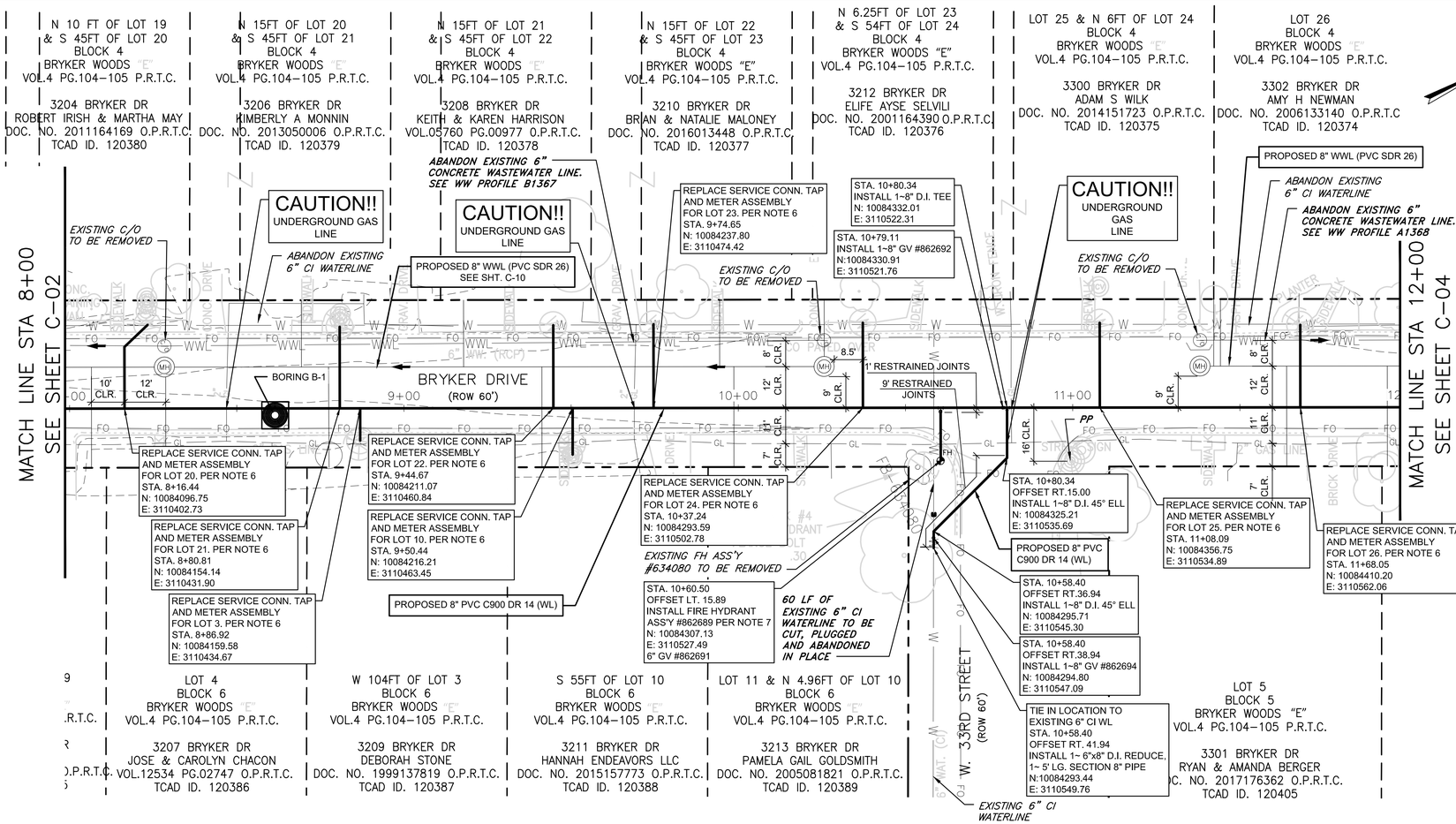
SHEET TITLE

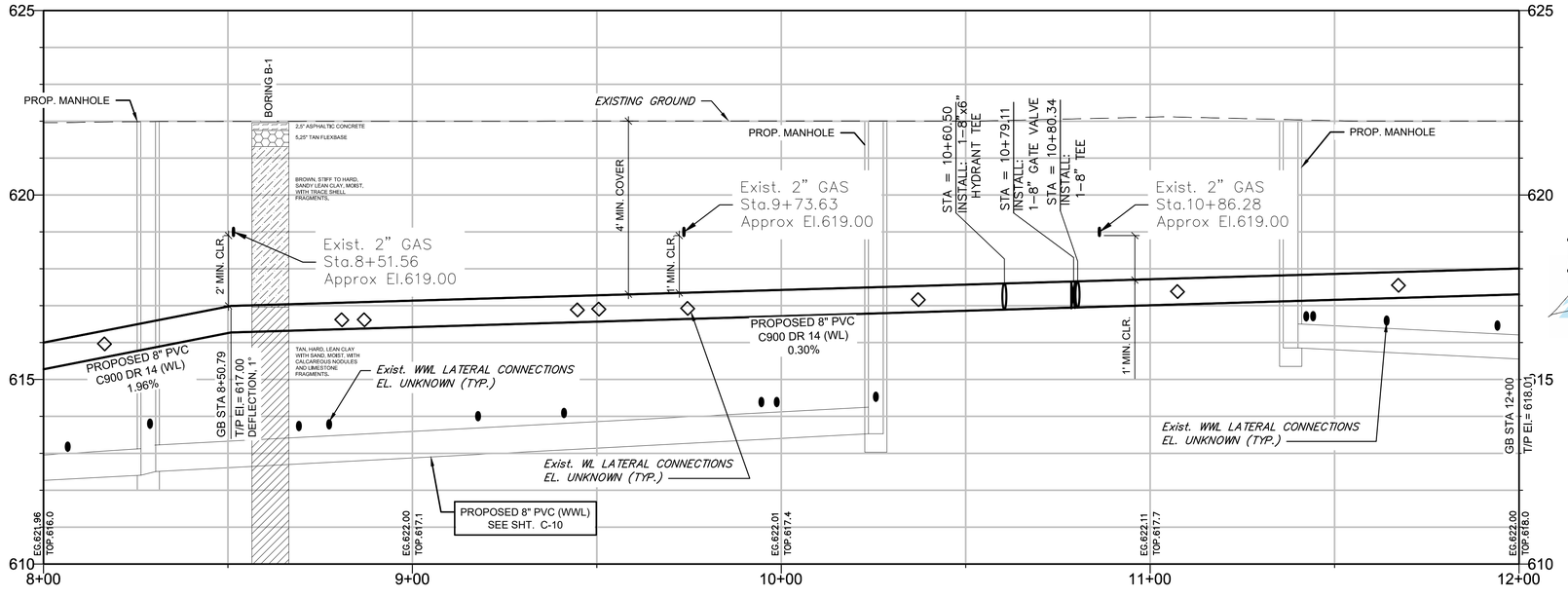
CIVIL

PROPOSED 8-INCH WATER LINE PLAN AND PROFILE STA. 4+00 to 8+00

SCALE: AS SHOWN

SHEET C-02
9 OF 55





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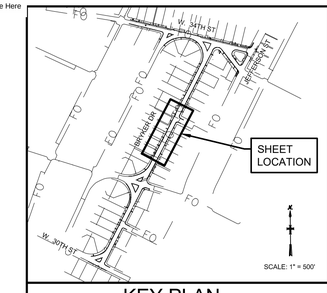
REVIEWED
December 02, 2020
Austin Water
Type Name Here

0 10' 20' 40'
H. SCALE: 1" = 20'
0 1' 2' 4'
V. SCALE: 1" = 2'



KEY PLAN

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED PROFESSIONAL ENGINEER
11-12-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

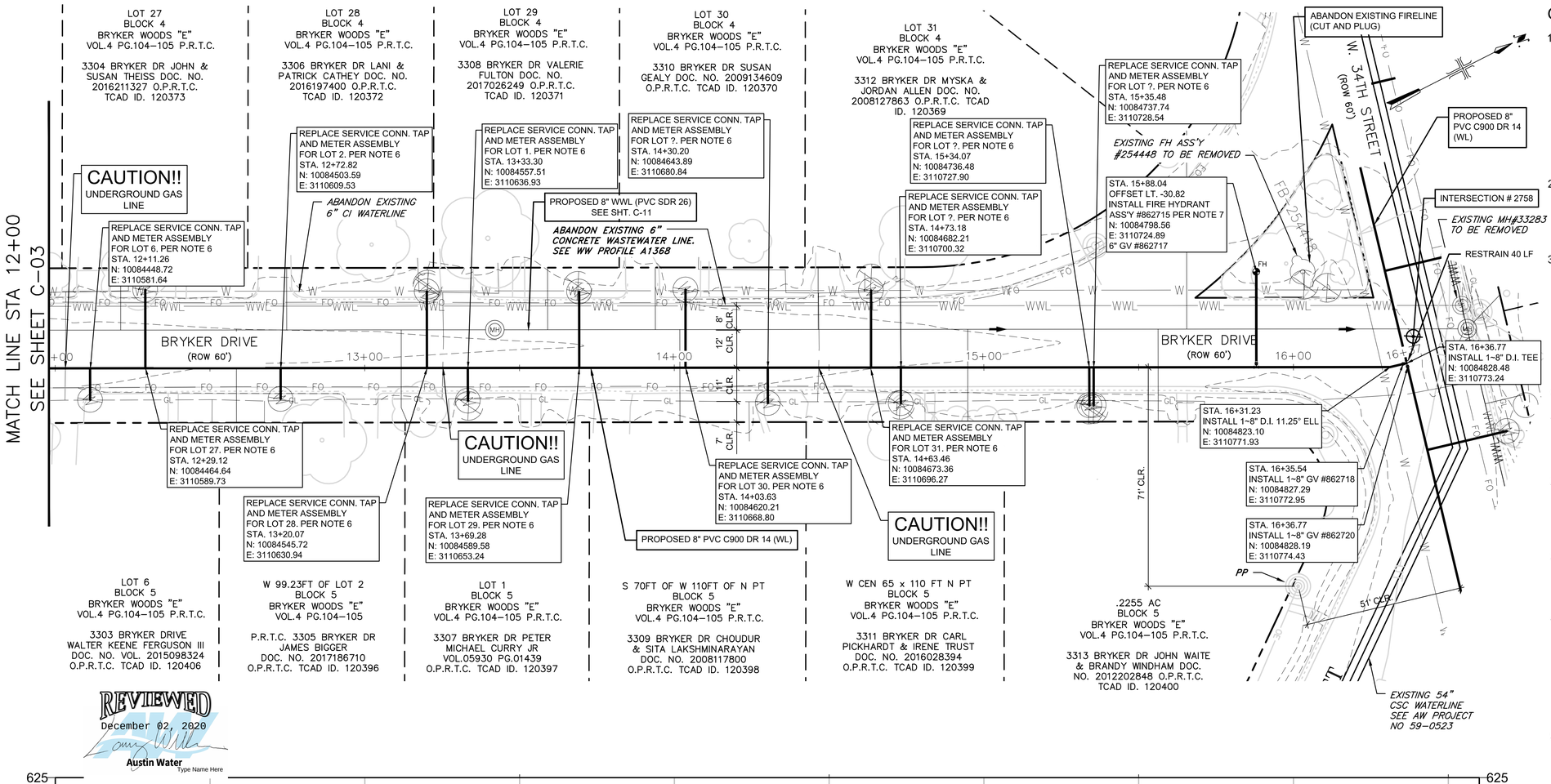
SHEET TITLE

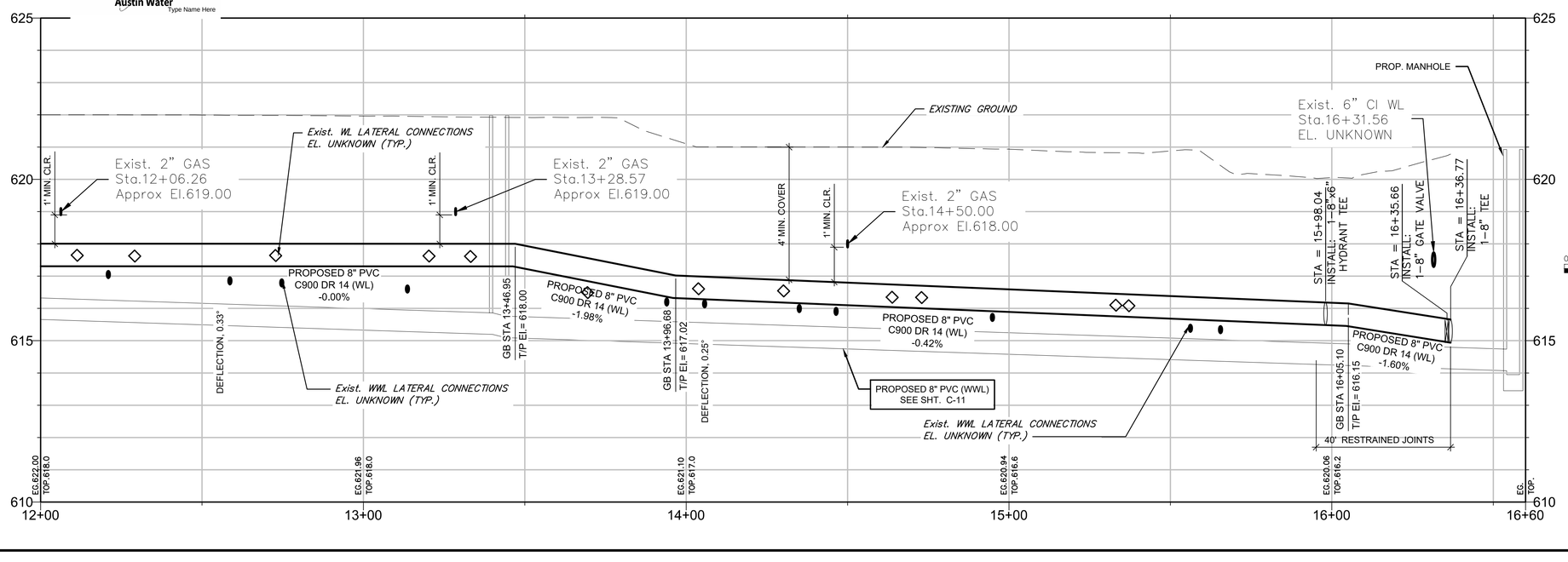
CIVIL

PROPOSED 8-INCH WATER LINE PLAN AND PROFILE STA. 8+00 TO 12+00

SCALE: AS SHOWN

SHEET C-03
10 OF 55





REVIEWED
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Austin Water
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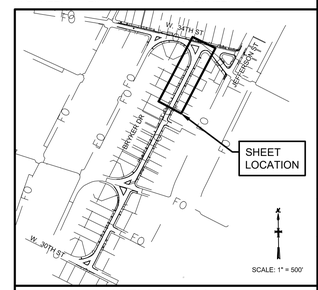


KEY PLAN

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED PROFESSIONAL ENGINEER
11-12-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN FOUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

SHEET TITLE

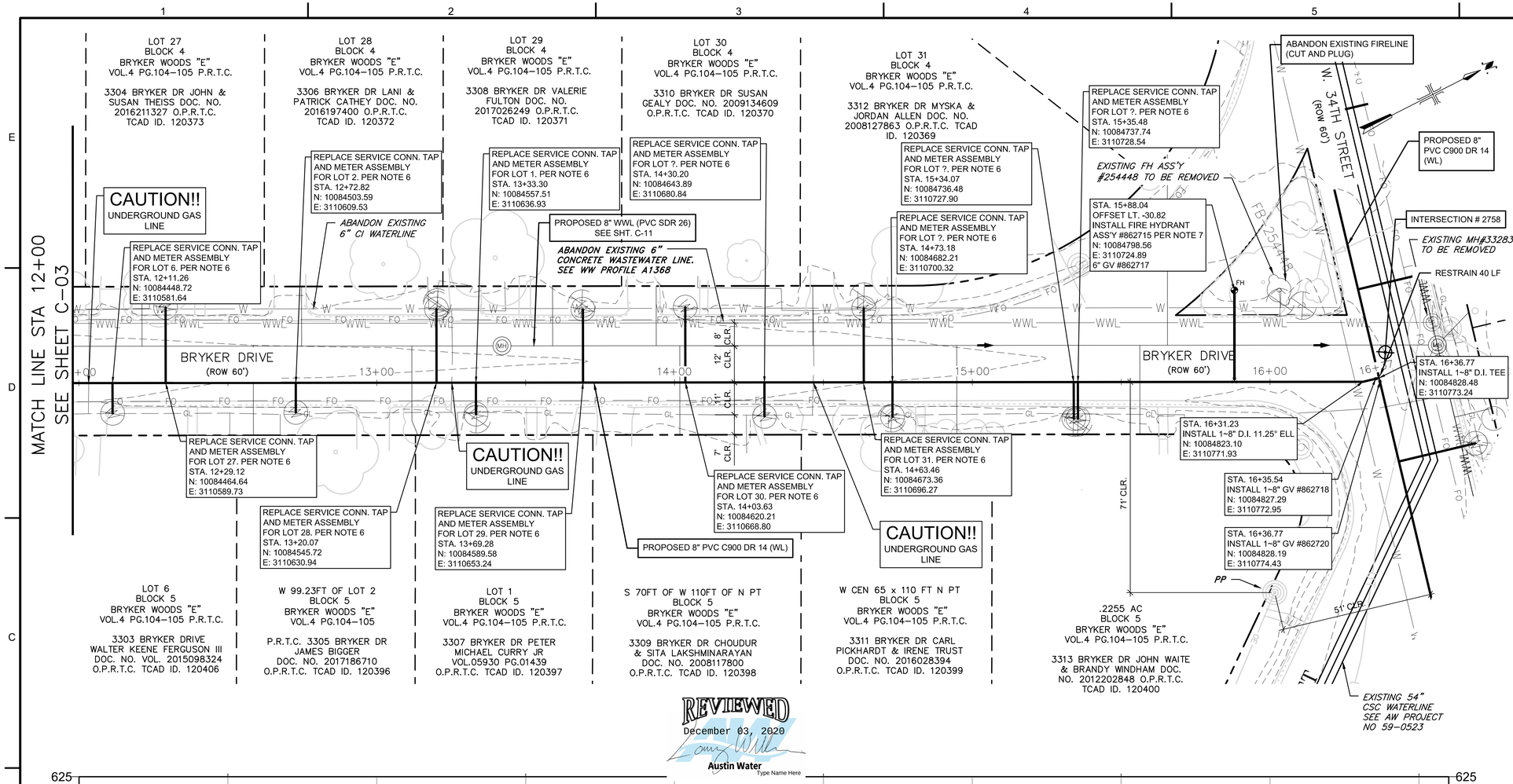
CIVIL

PROPOSED 8-INCH WATER LINE PLAN AND PROFILE STA. 12+00 TO 16+60

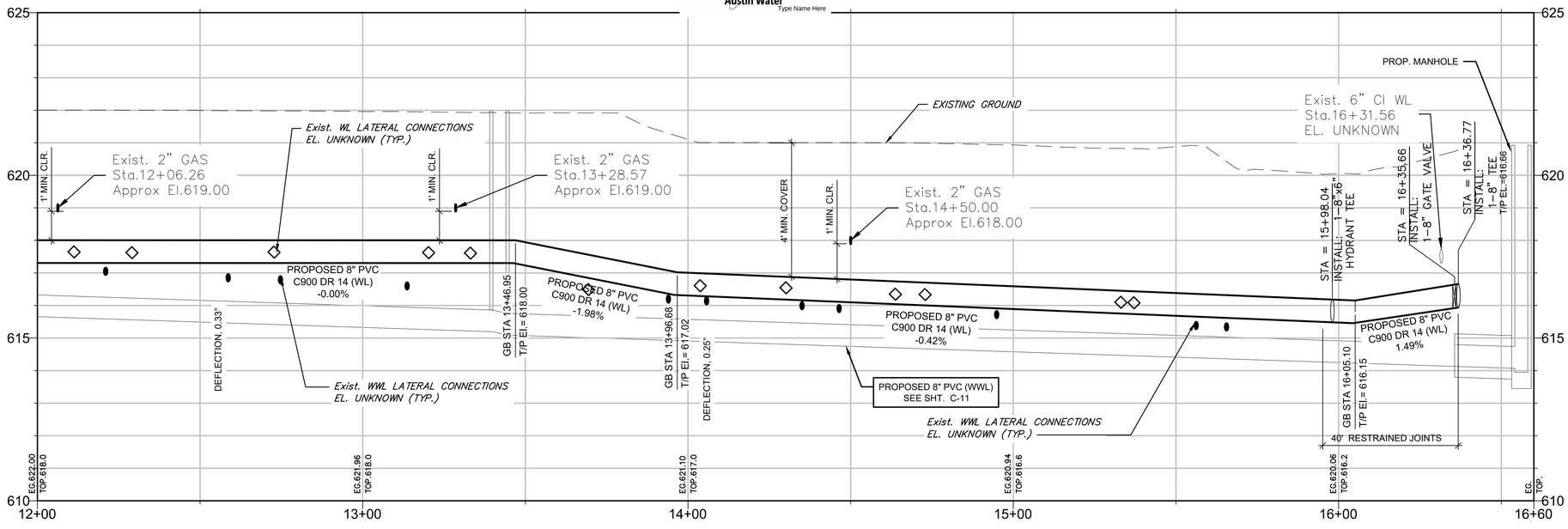
SCALE: AS SHOWN

SHEET C-04
11 OF 55

File: I:\ACAD\PROJ\02908105-COA\2-SHEETS\04-C-CIVIL Date: 9/10/2020 4:19 PM Last Saved By: NCANDELAS



REVIEWED
December 03, 2020
Austin Water
Type Name Here



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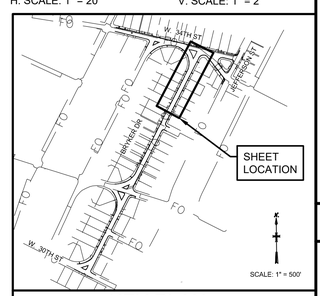


KEY PLAN

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
12-3-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE:	NOVEMBER 2020
PROJECT NO.:	02908105.0000
DESIGNED BY:	J. RECK
DRAWN BY:	B.SCROGGINS
CHECKED BY:	H.STEED

SHEET TITLE

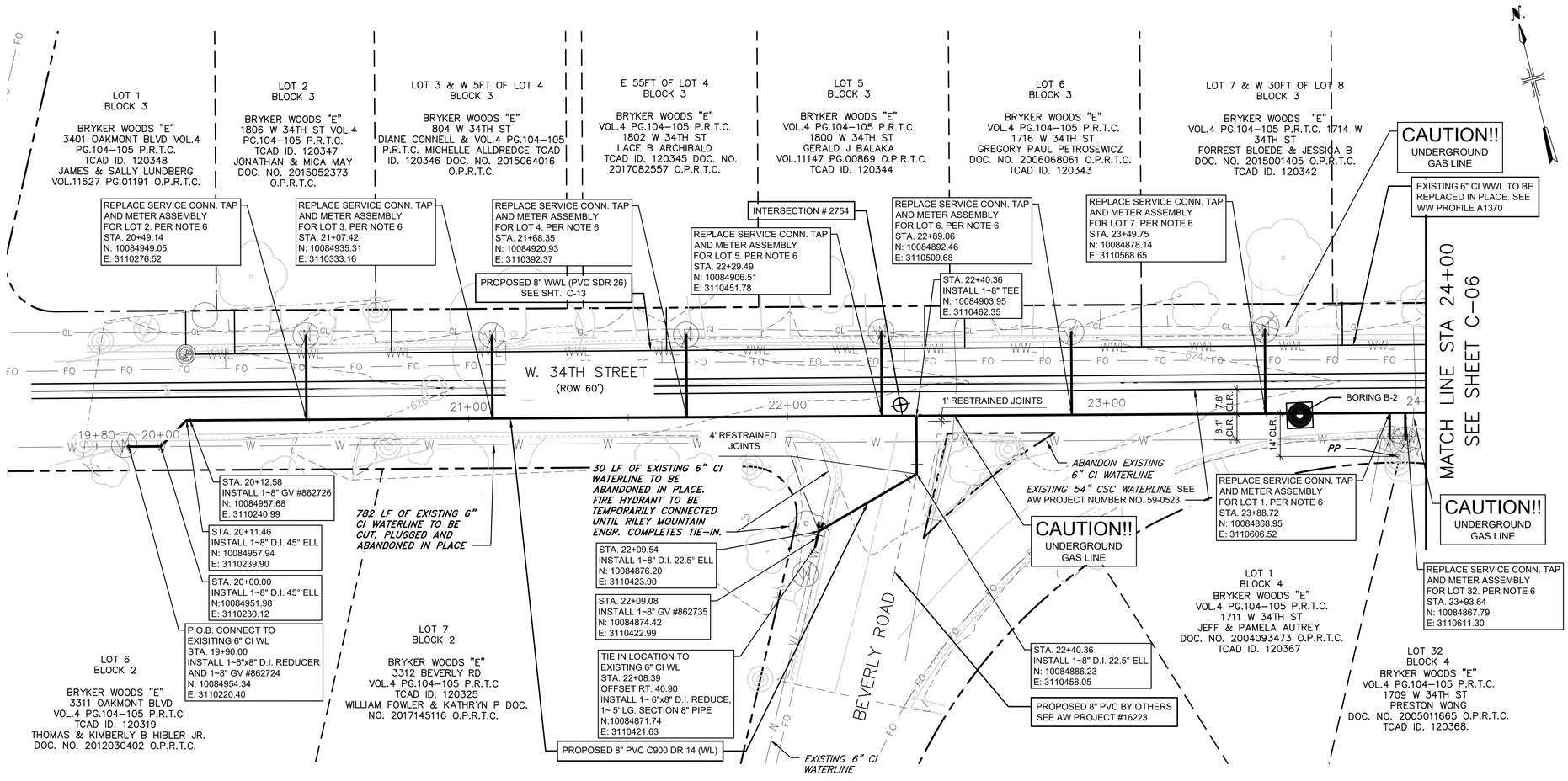
CIVIL

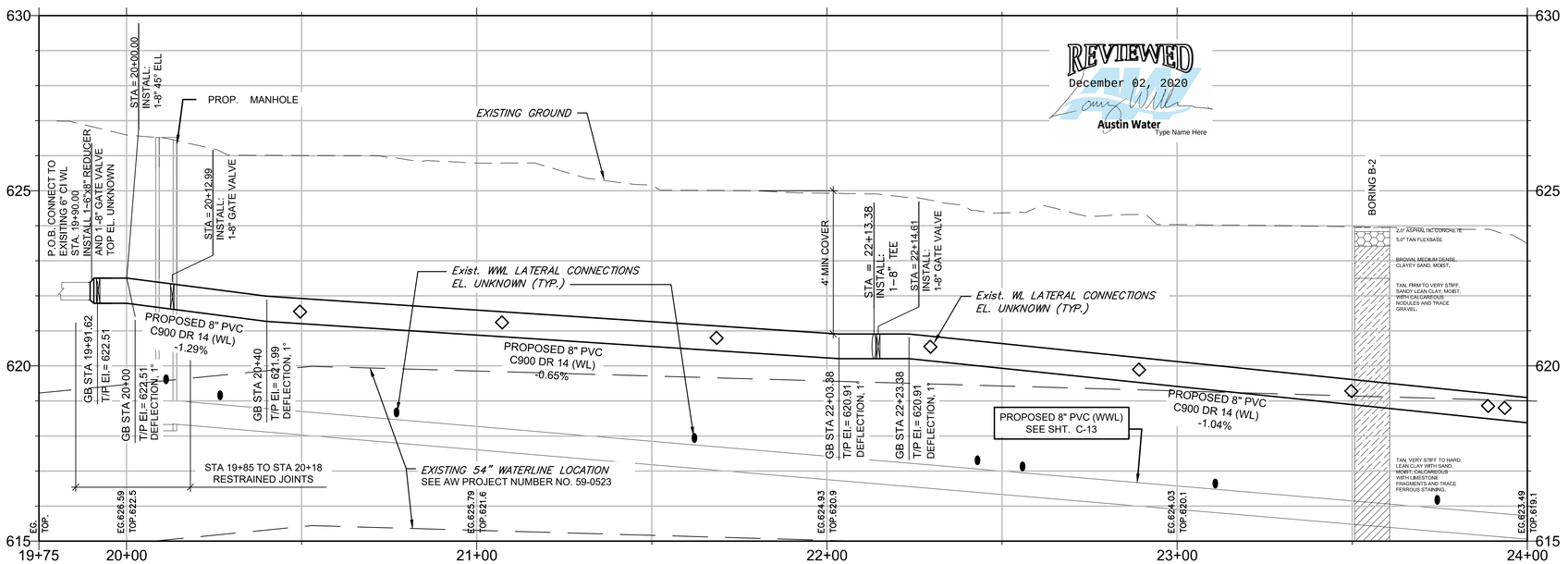
PROPOSED 8-INCH WATER LINE PLAN AND PROFILE STA. 12+00 TO 16+60

SCALE: AS SHOWN

SHEET C-04
11 OF 55

File: I:\ACAD\PROJ\02908105-COA\2-SHEETS\04-C-CIVIL Date: 12/3/2020 11:18 AM Last Saved By: NCANDELAS





GENERAL NOTES:

1. COORDINATES SHOWN HEREON ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (4203), NAD83(CORS). PROJECT REFERENCE POINTS ARE CITY OF AUSTIN MONUMENT "J-25-1001" (CB58) HAVING COORDINATE VALUES OF N=10,085,028.06, E6=3,112,116.43 AND "H-24-1001" HAVING COORDINATE VALUES OF N=10,080,581.36, E=3,107,208.51. COMBINED SCALE FACTOR = 1.0001.
2. ELEVATIONS AND CONTOURS SHOWN HEREON ARE BASED ON CITY OF AUSTIN MONUMENT "J-25-1001" (CB58) HAVING AN ELEVATION OF 579.64 FEET. NAVD88 VERTICAL DATUM.
3. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON VISIBLE SURFACE FEATURES, PAINT MARKS AND RECORD UTILITY PLANS PREPARED BY OTHERS. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR FIELD VERIFYING THE LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES. PRIOR TO EXCAVATION OR DRILLING "ONE-CALL" TEXAS 811 SHOULD BE CONTACTED.

WATER NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WATER SERVICE TO EXISTING WATER MAINS AND SERVICES AT ALL TIMES.
2. CONTRACTOR SHALL PROTECT AND REPAIR (IF DAMAGED) ANY EXISTING WATER, SEWER OR GAS SERVICE LATERALS AND IRRIGATION SHOWN OR NOT SHOWN ON THE PLANS.
3. NO EXISTING VALVES TO BE OPERATED BY THE CONTRACTOR WITHOUT DIRECTION FROM CITY OF AUSTIN WATER UTILITY PERSONNEL.
4. THE UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND FOR INFORMATION ONLY. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES (HORIZONTAL AND VERTICAL), AND SHALL BE RESPONSIBLE FOR DAMAGE TO THE UTILITIES CAUSED BY THE CONTRACTOR'S OPERATION.
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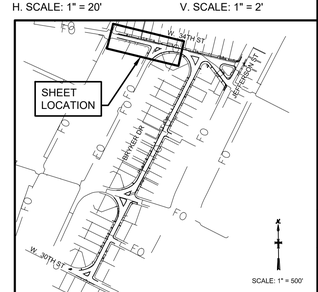
6. REPLACE WATER SERVICE AND METER ASSEMBLY PER DETAIL 520-AW-02 ON SHT. SD-02 (INCLUDING METER, METER BOX, SERVICE, LINE, TAP AND APPURTENANCES).
7. INSTALL NEW FIRE ASSEMBLY PER DETAIL 511-AW 02 ON SHT. SD-01 (INCLUDING ALL APPURTENANCES)
8. WATER SERVICES LINE ELEVATIONS MAY BE ADJUSTED AS NEEDED IN THE FIELD.

0 10' 20' 40'
H. SCALE: 1" = 20'

0 1' 2' 4'
V. SCALE: 1" = 2'



KEY PLAN

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
11-12-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN
FOUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

SHEET TITLE

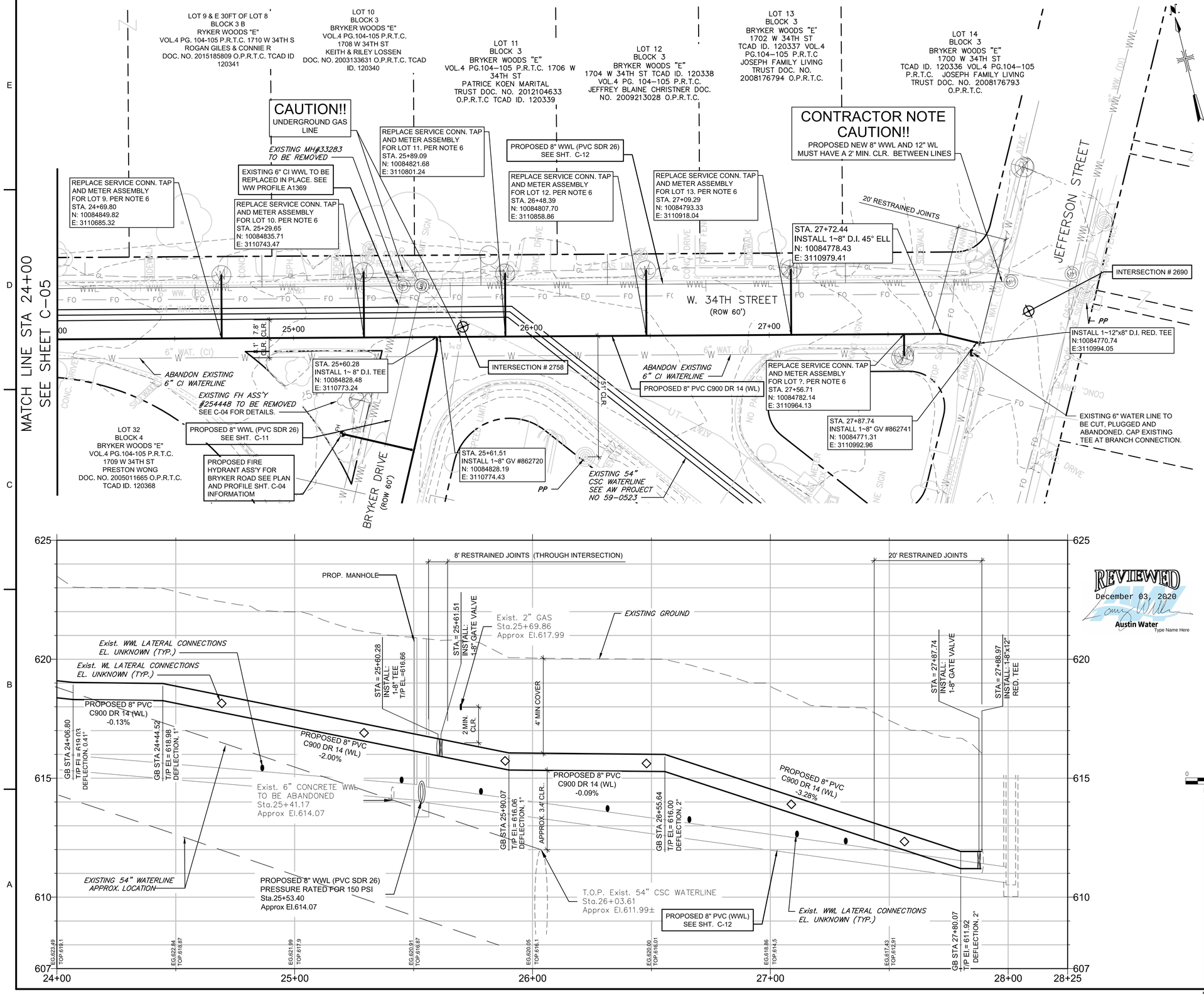
CIVIL

PROPOSED 8-INCH WATER
LINE PLAN AND PROFILE
STA. 19+75 TO 24+00

SCALE: AS SHOWN

SHEET C-05
12 OF 55

File: I:\ACAD\PROJ\02908105-COA\2-SHEETS\04-C-CIVIL Date: 9/10/2020 4:19 PM Last Saved By: NCANDELAS



REVIEWED
December 03, 2020
Austin Water
Type Name Here

GENERAL NOTES:

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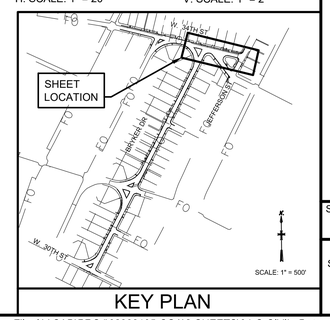
8. WATER SERVICES LINE ELEVATIONS MAY BE ADJUSTED AS NEEDED IN THE FIELD.

H. SCALE: 1" = 20' V. SCALE: 1" = 2'



KEY PLAN

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
12-3-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE:	NOVEMBER 2020
PROJECT NO.:	02908105.0000
DESIGNED BY:	J. RECK
DRAWN BY:	B.SCROGGINS
CHECKED BY:	H.STEED

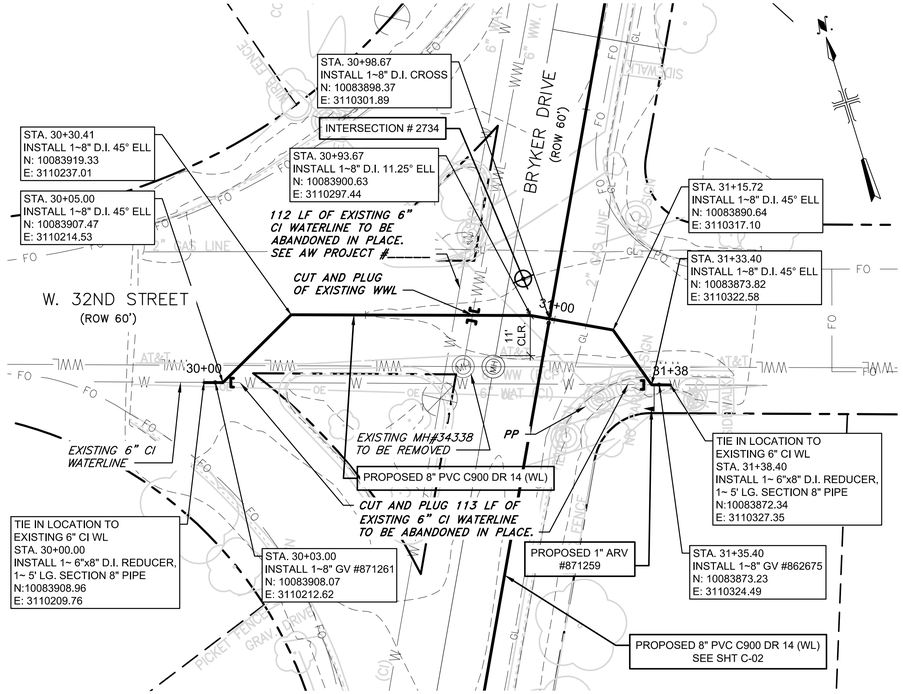
SHEET TITLE

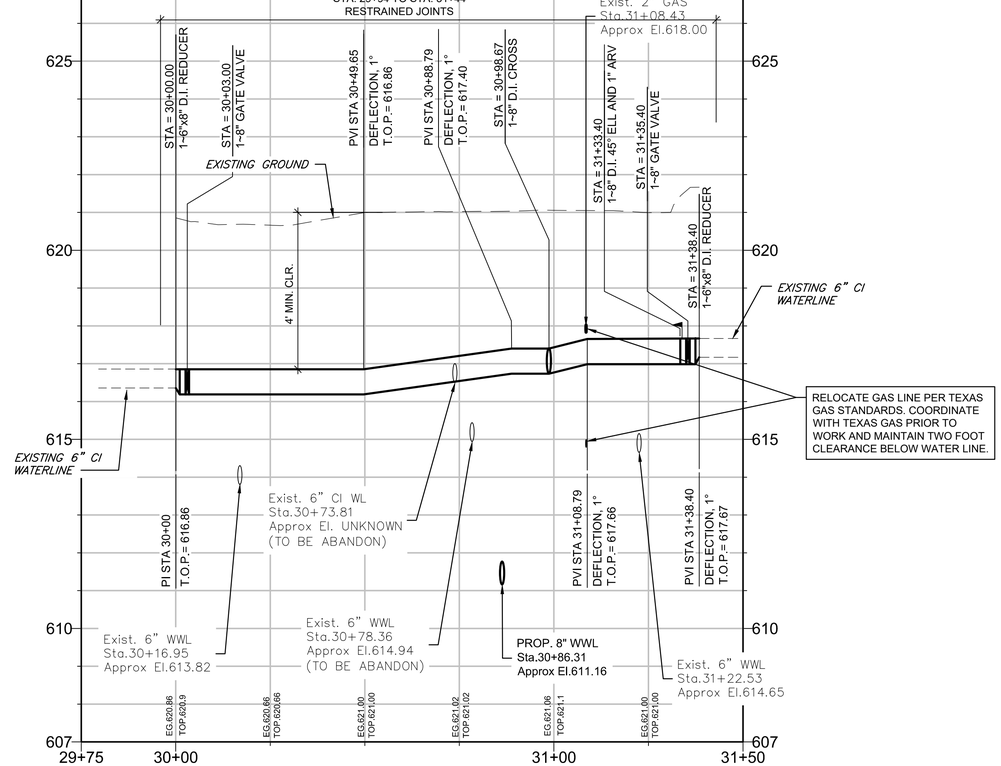
CIVIL

PROPOSED 8-INCH WATER LINE PLAN AND PROFILE STA. 24+00 to 27+88.97

SCALE: AS SHOWN

SHEET C-06
13 OF 55





PLAN AND PROFILE FOR W. 32ND STREET

REVIEWED
December 02, 2020
Austin Water
Type Name Here

GENERAL NOTES:

1. COORDINATES SHOWN HEREON ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (4203), NAD83(CORS). PROJECT REFERENCE POINTS ARE CITY OF AUSTIN MONUMENT "J-25-1001" (CB58) HAVING COORDINATE VALUES OF N=10,085,028.06, E6=3,112,116.43 AND "H-24-1001" HAVING COORDINATE VALUES OF N=10,080,581.36, E=3,107,208.51. COMBINED SCALE FACTOR = 1.0001.
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0 10' 20' 40'
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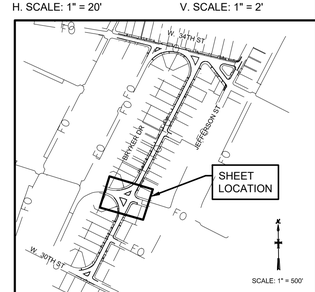


KEY PLAN

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
11-12-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

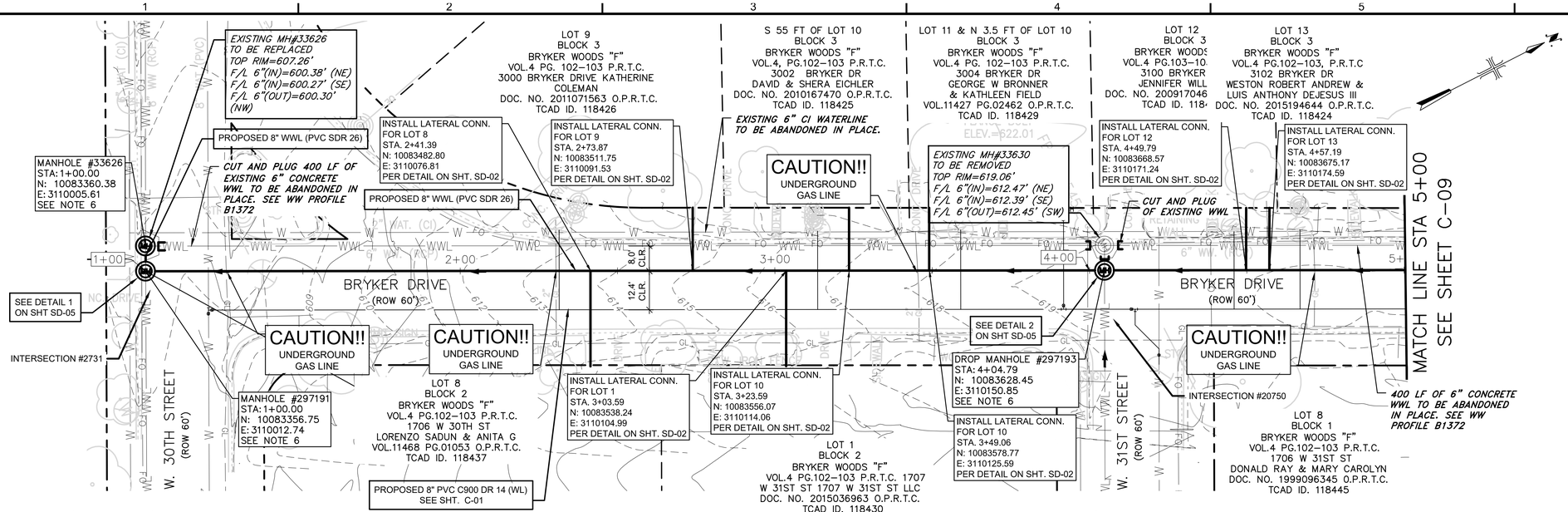
SHEET TITLE

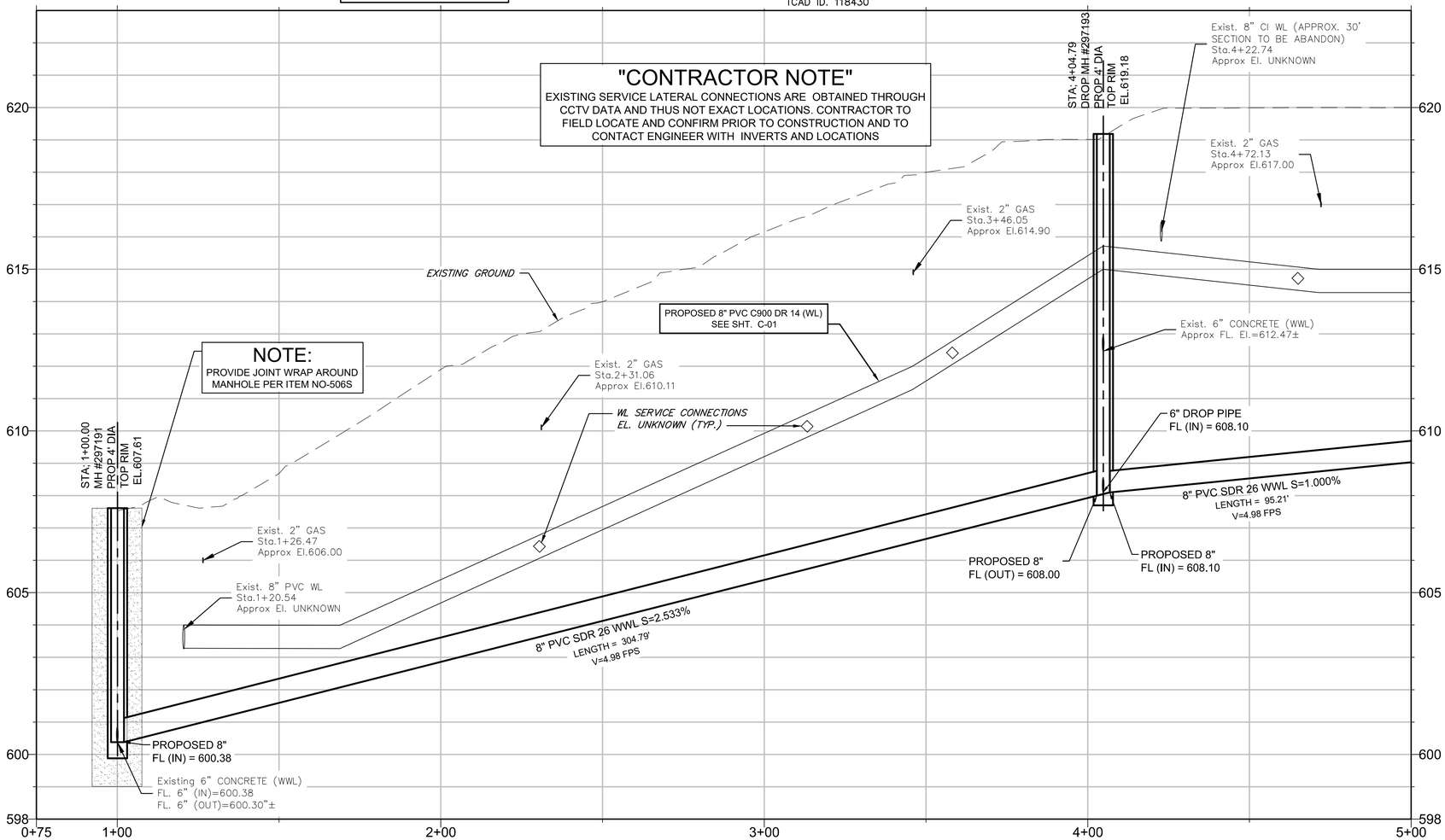
CIVIL

PROPOSED 8-INCH WATER LINE PLAN AND PROFILE STA 29+75 TO 31+50

SCALE: AS SHOWN

SHEET C-07
14 OF 55





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SEWER NOTES:

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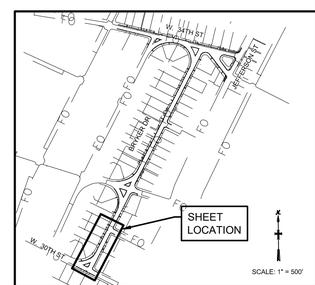
4. ALL WASTEWATER SERVICES SHALL BE INSTALLED WITH MINIMUM 1% SLOPE AND A TWO-WAY CLEANOUT AT THE PROPERTY LINE.
5. LATERAL CONNECTIONS CROSSING WATER LINE TO BE CONSTRUCTED OF 150 PSI PRESSURE-RATED PIPING AND IN CEMENT STABILIZED SAND.
6. MANHOLES TO BE WATER TIGHT AND INSTALLED IN ACCORDANCE WITH DETAIL 506S-6.

REVIEWED
December 02, 2020
Austin Water
Type Name Here

0 10' 20' 40'
H. SCALE: 1" = 20'
0 1' 2' 4'
V. SCALE: 1" = 2'



KEY PLAN

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED PROFESSIONAL ENGINEER
11-12-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN FOUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE:	NOVEMBER 2020
PROJECT NO.:	02908105.0000
DESIGNED BY:	J. RECK
DRAWN BY:	B.SCROGGINS
CHECKED BY:	H.STEED

SHEET TITLE

CIVIL

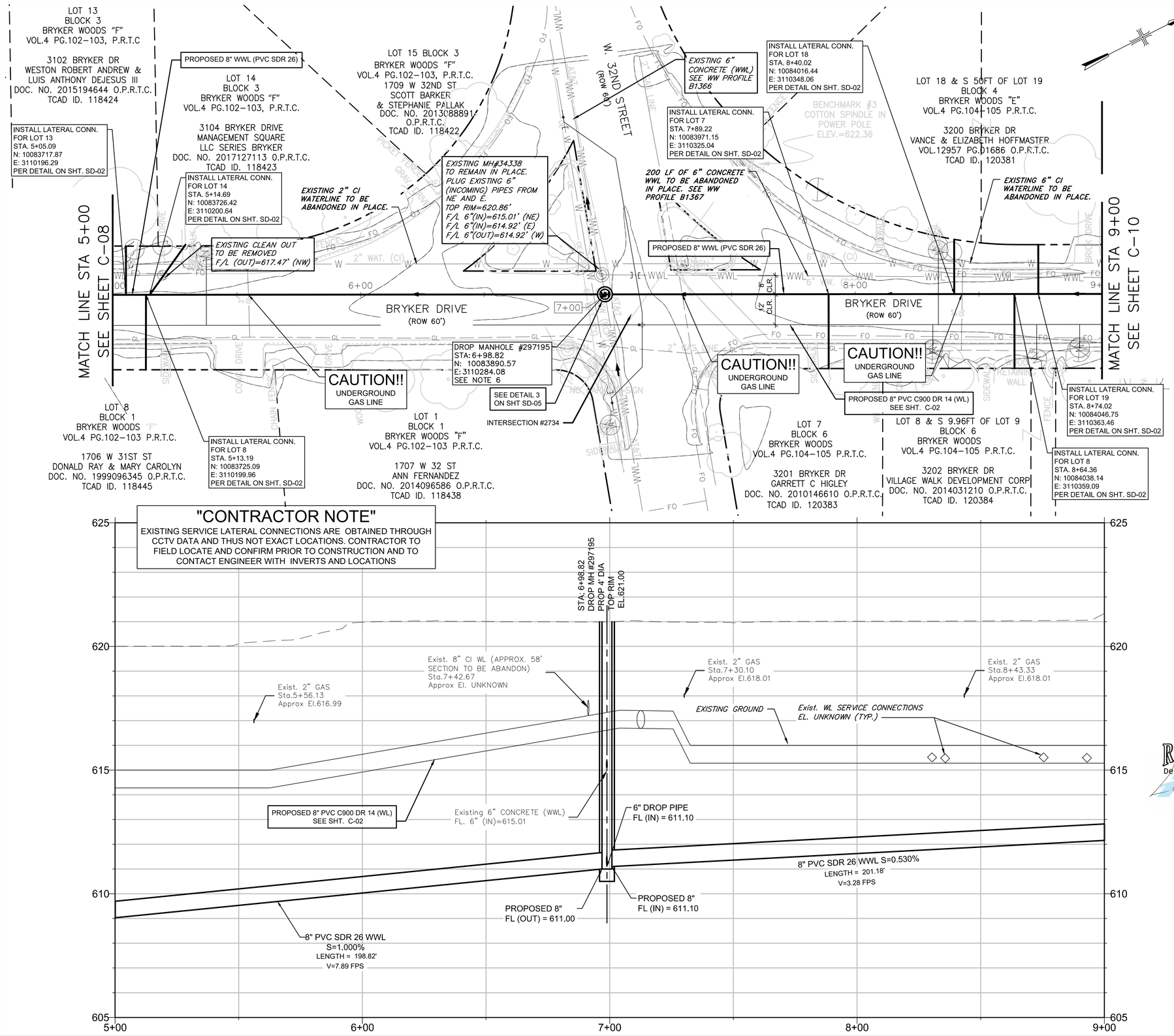
PROPOSED 8-INCH WASTEWATER LINE PLAN AND PROFILE STA. 0+75 to 5+00

SCALE: AS SHOWN

SHEET C-08

15 OF 55

File: I:\ACAD\PROJ\02908105-COA\2-SHEETS\04-C-CIVIL Date: 9/10/2020 4:03 PM Last Saved By: NCANDELAS



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REVIEWED
December 02, 2020
Austin Water
Type Name Here

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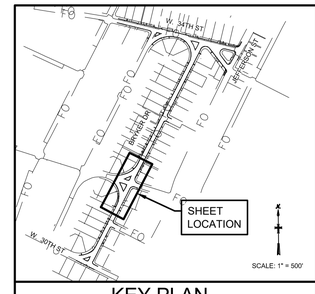
V. SCALE: 1" = 2'



KEY PLAN

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
11-12-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
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DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

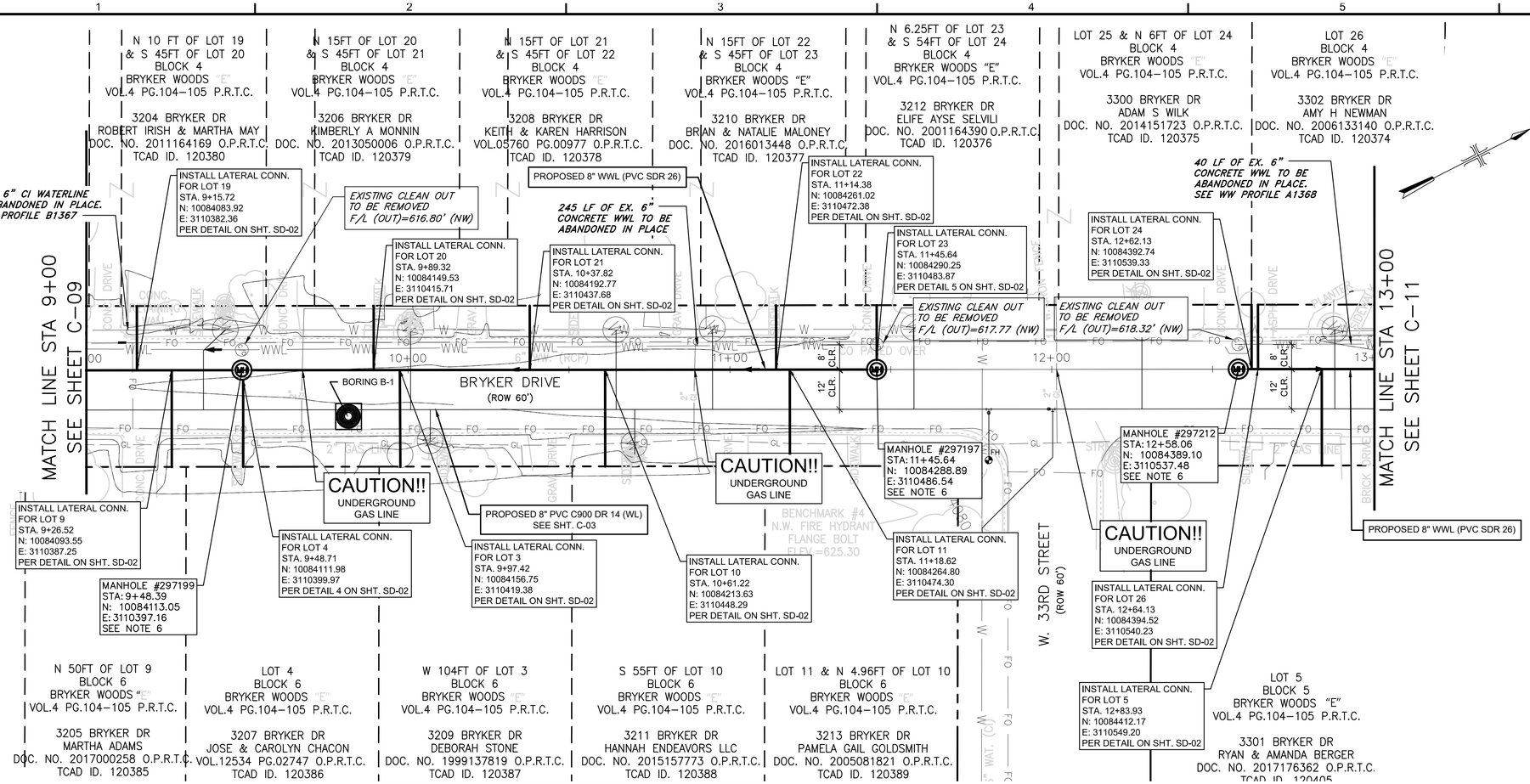
SHEET TITLE

CIVIL

PROPOSED 8-INCH
WASTEWATER LINE
PLAN AND PROFILE
STA. 5+00 to 9+00

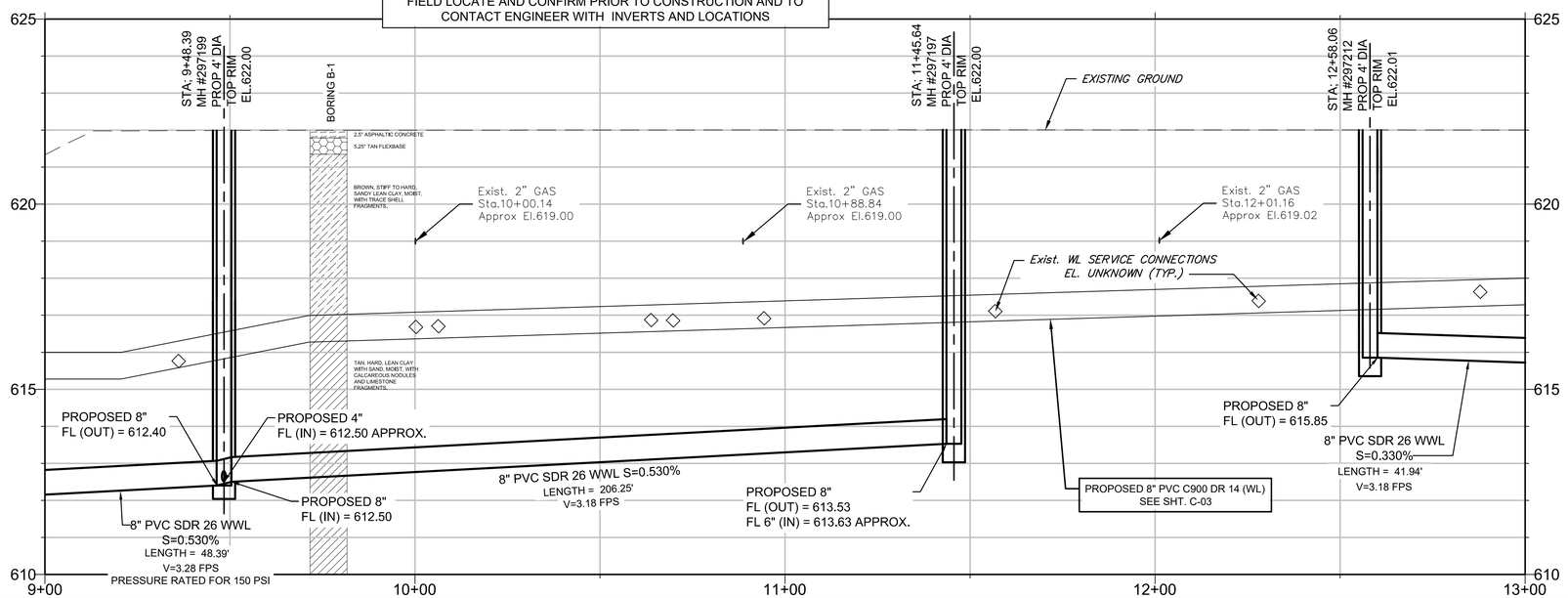
SCALE: AS SHOWN

SHEET C-09
16 OF 55



"CONTRACTOR NOTE"

EXISTING SERVICE LATERAL CONNECTIONS ARE OBTAINED THROUGH CCTV DATA AND THUS NOT EXACT LOCATIONS. CONTRACTOR TO FIELD LOCATE AND CONFIRM PRIOR TO CONSTRUCTION AND TO CONTACT ENGINEER WITH INVERTS AND LOCATIONS



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REVIEWED
December 02, 2020
Austin Water
Type Name Here

0 10' 20' 40'
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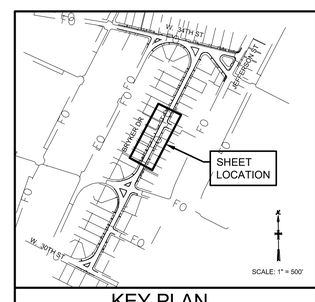


KEY PLAN

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED PROFESSIONAL ENGINEER
11-12-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN FOUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

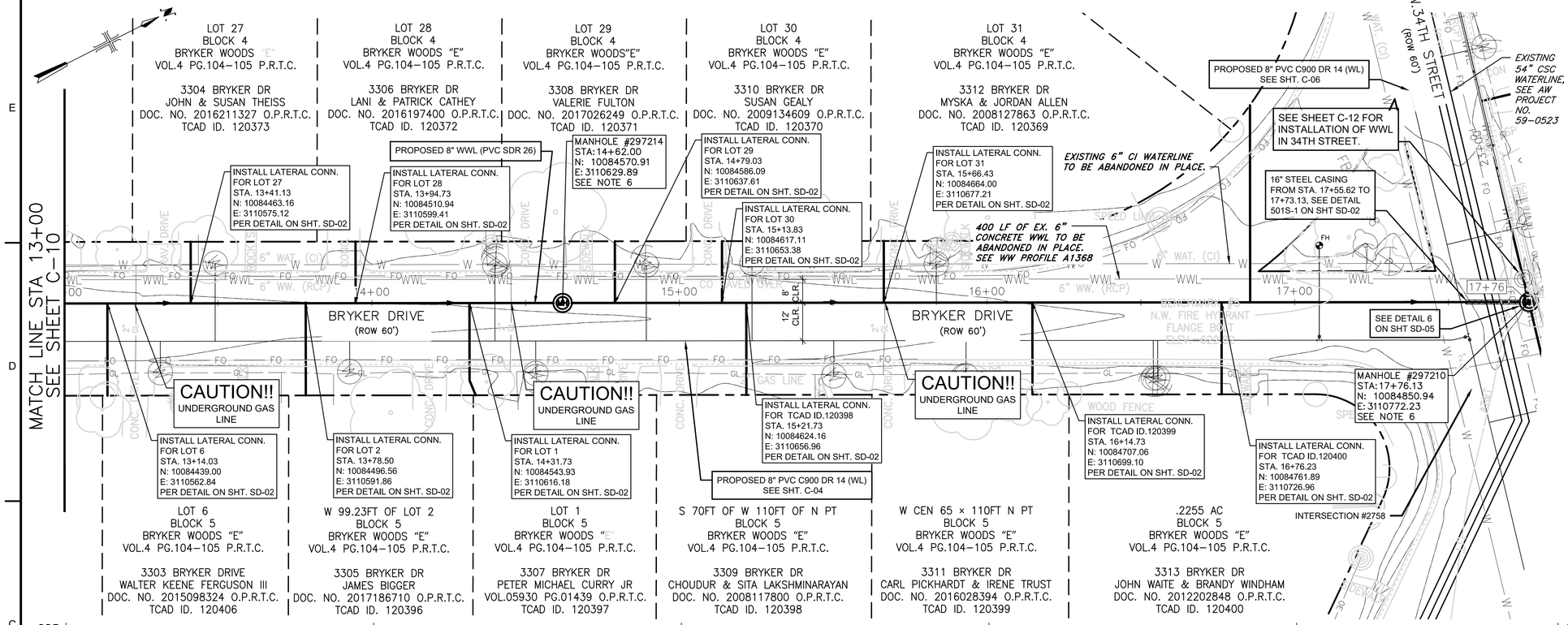
SHEET TITLE

CIVIL

PROPOSED 8-INCH WASTEWATER LINE PLAN AND PROFILE STA. 9+00 to 13+00

SCALE: AS SHOWN

SHEET C-10
17 OF 55



GENERAL NOTES:

1. COORDINATES SHOWN HEREON ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (4203), NAD83(CORS). PROJECT REFERENCE POINTS ARE CITY OF AUSTIN MONUMENT "J-25-1001" (CB58) HAVING COORDINATE VALUES OF N=10,085,028.06, E6=3,112,116.43 AND "H-24-1001" HAVING COORDINATE VALUES OF N=10,080,581.36, E=3,107,208.51. COMBINED SCALE FACTOR = 1.0001.
2. ELEVATIONS AND CONTOURS SHOWN HEREON ARE BASED ON CITY OF AUSTIN MONUMENT "J-25-1001" (CB58) HAVING AN ELEVATION OF 579.64 FEET. NAVD88 VERTICAL DATUM.
3. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON VISIBLE SURFACE FEATURES, PAINT MARKS AND RECORD UTILITY PLANS PREPARED BY OTHERS. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR FIELD VERIFYING THE LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES. PRIOR TO EXCAVATION OR DRILLING "ONE-CALL" TEXAS 811 SHOULD BE CONTACTED.

SEWER NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SANITARY SEWER SERVICE TO EXISTING RESIDENCES.
2. CONTRACTOR SHALL PROTECT AND REPAIR (IF DAMAGED) ANY EXISTING SEWER, WATER, AND GAS SERVICE LATERALS AND IRRIGATION SHOWN OR NOT SHOWN ON THE PLANS.
3. THE UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND FOR INFORMATION ONLY. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES (HORIZONTAL AND VERTICAL), AND SHALL BE RESPONSIBLE FOR DAMAGE TO THE UTILITIES CAUSED BY THE CONTRACTOR'S OPERATION.
4. ALL WASTEWATER SERVICES SHALL BE INSTALLED WITH MINIMUM 1% SLOPE AND A TWO-WAY CLEANOUT AT THE PROPERTY LINE.
5. LATERAL CONNECTIONS CROSSING WATER LINE TO BE CONSTRUCTED OF 150 PSI PRESSURE-RATED PIPING AND IN CEMENT STABILIZED SAND.
6. MANHOLES TO BE WATER TIGHT AND INSTALLED IN ACCORDANCE WITH DETAIL 506S-6.

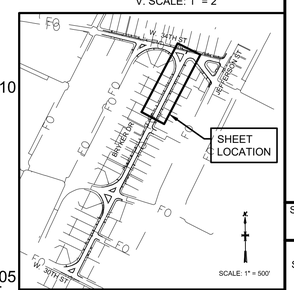
H. SCALE: 1" = 20'

V. SCALE: 1" = 2'

"CONTRACTOR NOTE"

EXISTING SERVICE LATERAL CONNECTIONS ARE OBTAINED THROUGH CCTV DATA AND THUS NOT EXACT LOCATIONS. CONTRACTOR TO FIELD LOCATE AND CONFIRM PRIOR TO CONSTRUCTION AND TO CONTACT ENGINEER WITH INVERTS AND LOCATIONS

REVIEWED
December 03, 2020
Austin Water
Type Name Here



KEY PLAN

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
12-3-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

SHEET TITLE

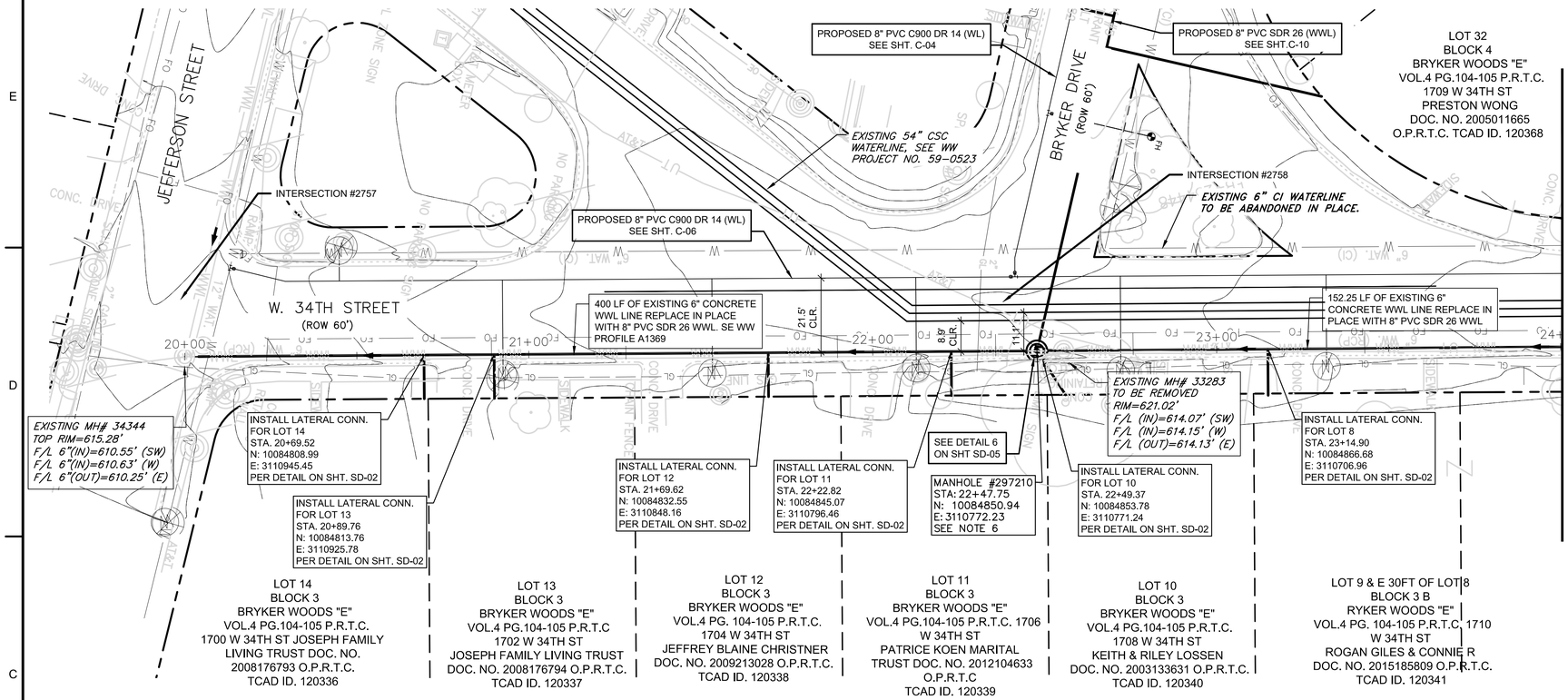
CIVIL

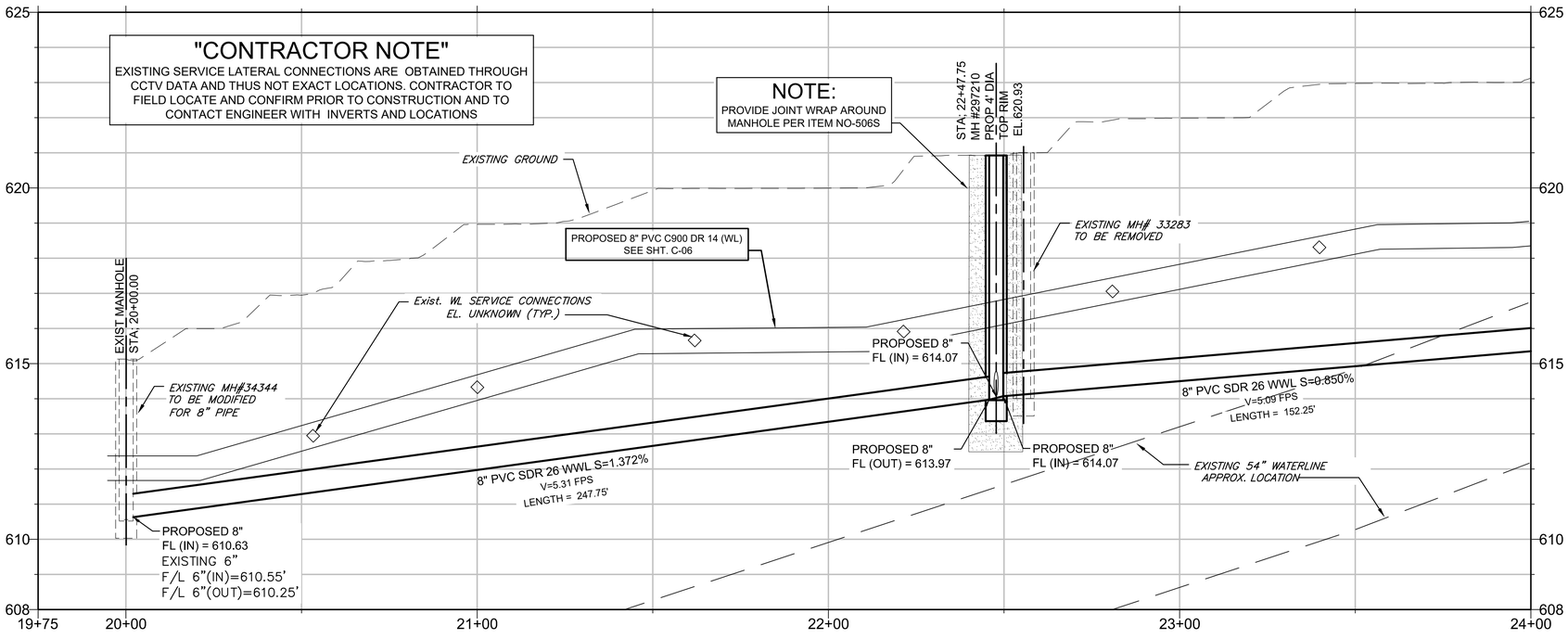
PROPOSED 8-INCH
WASTEWATER LINE
PLAN AND PROFILE
STA. 13+00 to 17+85

SCALE: AS SHOWN

SHEET C-11
18 OF 55

File: I:\ACAD\PROJ\02908105-COA\2-SHEETS\04-C-CIVIL Date: 12/3/2020 11:41 AM Last Saved By: NCANDELAS





GENERAL NOTES:

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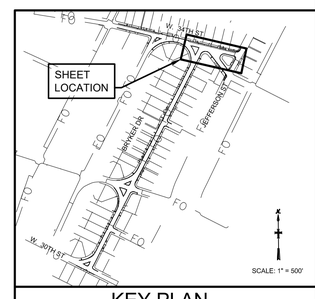
6. MANHOLES TO BE WATER TIGHT AND INSTALLED IN ACCORDANCE WITH DETAIL 506S-6.

REVIEWED
December 02, 2020
Austin Water
Type Name Here

H. SCALE: 1" = 20'
V. SCALE: 1" = 2'



KEY PLAN

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
11-12-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

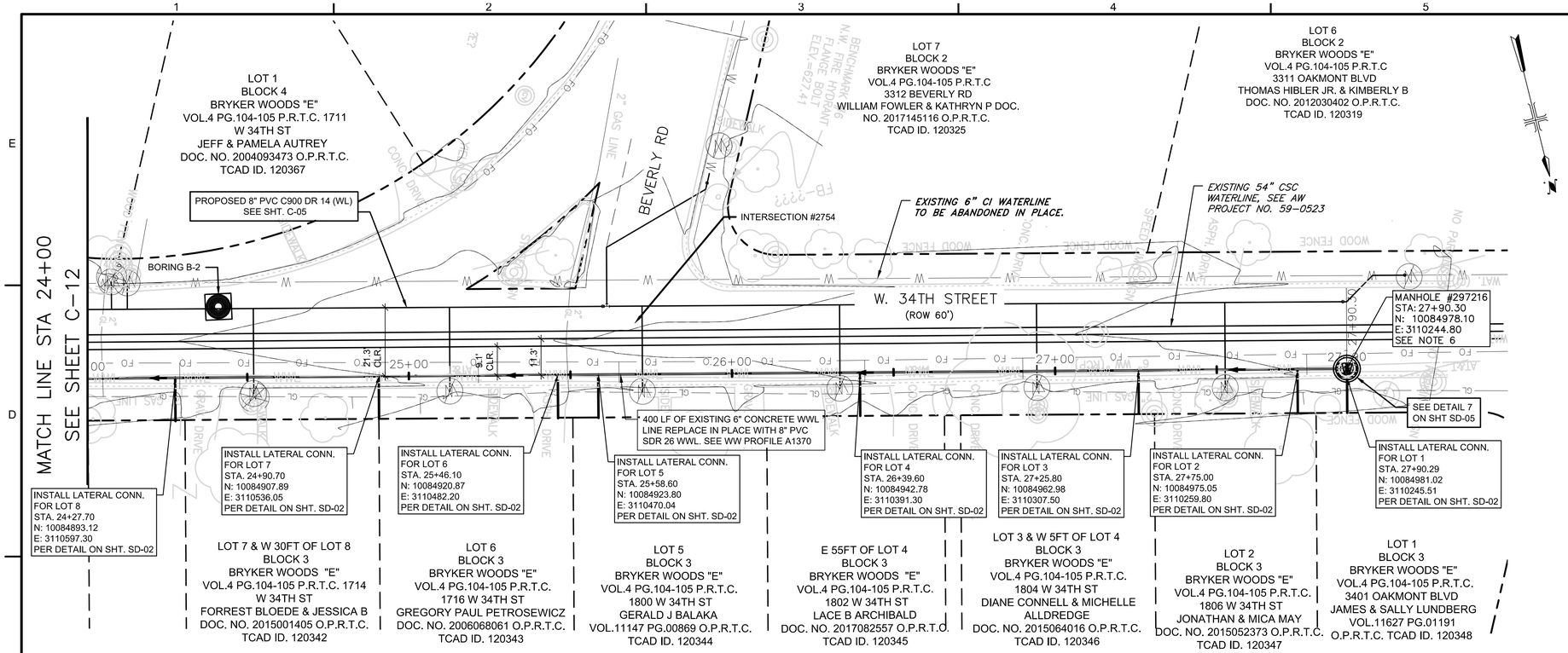
SHEET TITLE

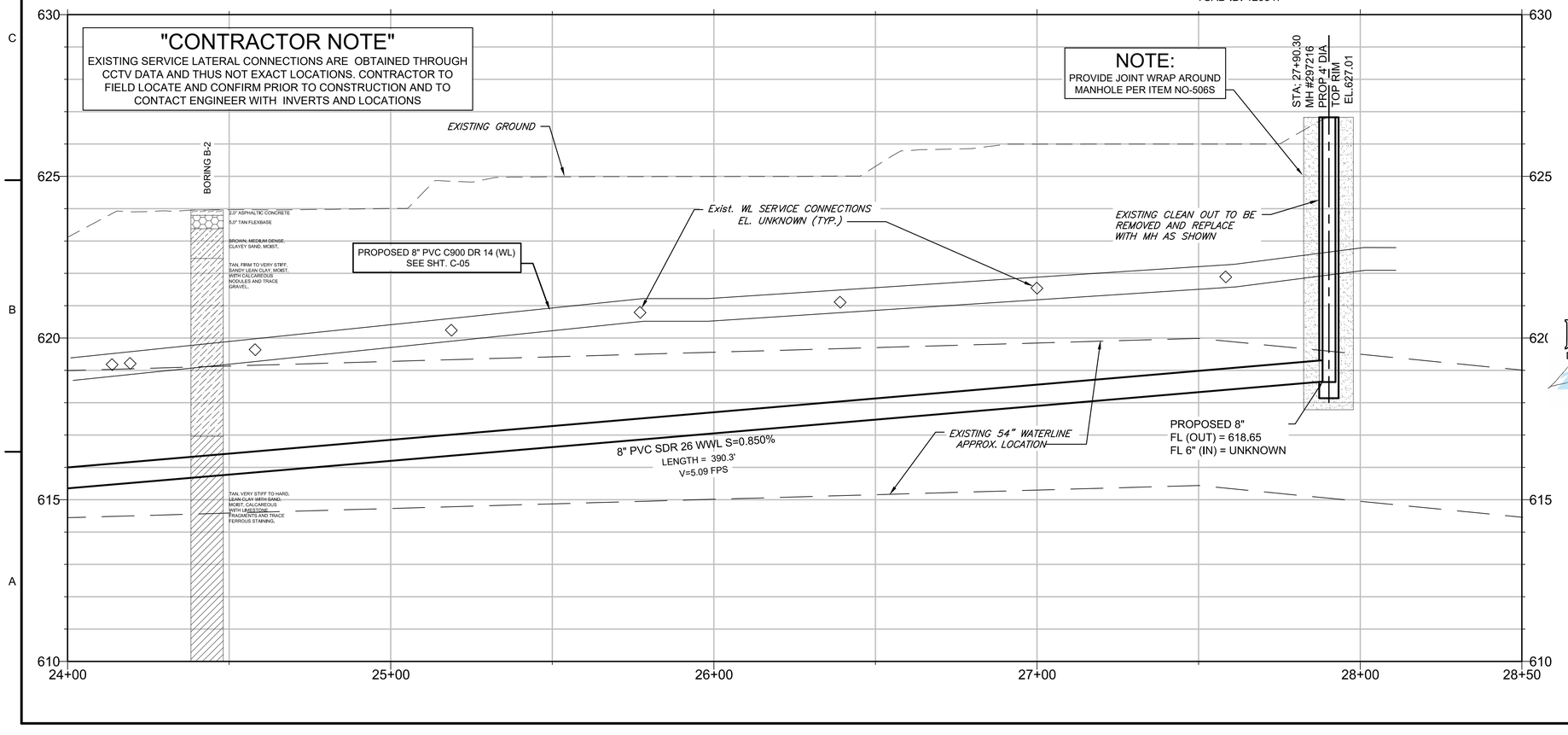
CIVIL

PROPOSED 8-INCH
WASTEWATER LINE
PLAN AND PROFILE
STA. 19+75 to 24+00

SCALE: AS SHOWN

SHEET C-12
19 OF 55





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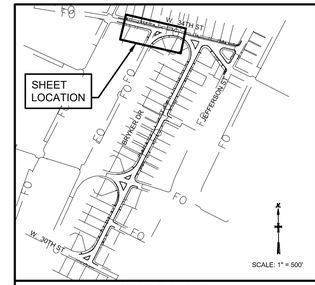
REVIEWED
December 02, 2020
Austin Water
Type Name Here

0 10' 20' 40'
H. SCALE: 1" = 20'

0 1' 2' 4'
V. SCALE: 1" = 2'



KEY PLAN

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
11-12-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

SHEET TITLE

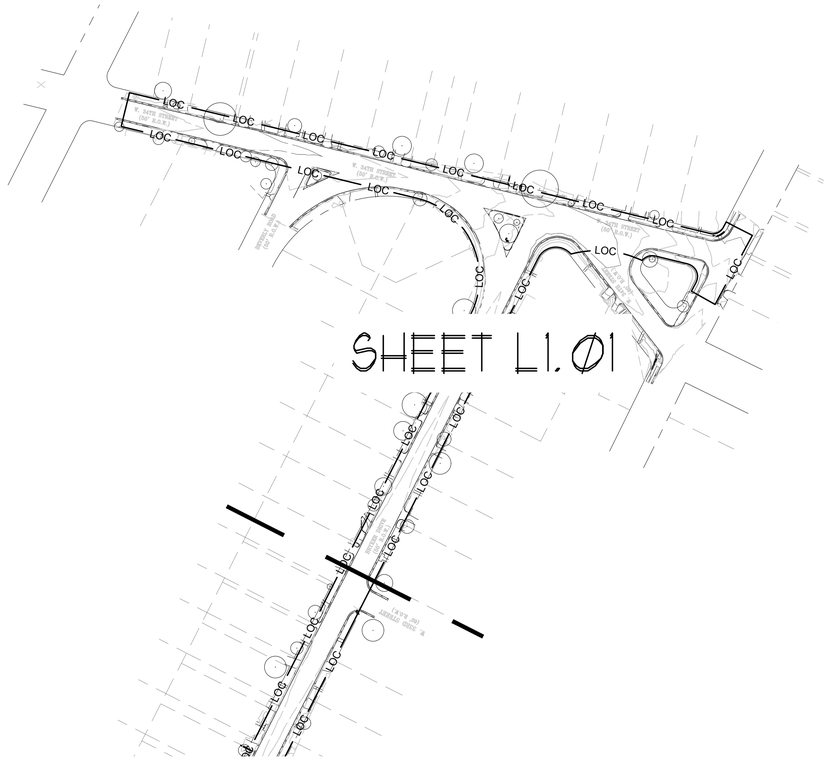
CIVIL

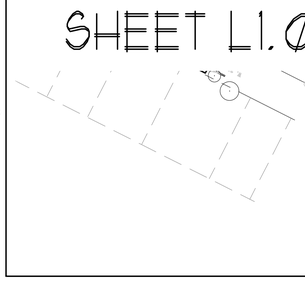
PROPOSED 8-INCH
WASTEWATER LINE
PLAN AND PROFILE
STA. 24+00 TO 28+50

SCALE: AS SHOWN

SHEET C-13
20 OF 55

File: I:\ACAD\PROJ\02908105-COA\2-SHEETS\04-C-CIVIL Date: 9/10/2020 4:13 PM Last Saved By: NCANDELAS





EROSION & SEDIMENT CONTROL AND TREE PROTECTION REQUIREMENTS [LDC 25-7-61,65,25-8-181,182,183,184]:

1. IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TARP OR REVEGETATION MATTING. [ECM 1.4.4.B.3, SECTION 5,1.]
2. ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN-COMPLIANCE WITH THE CITY OF AUSTIN RULES AND REGULATIONS.[LDC 25-8-183]
3. CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING AS PER ECM 1.4.5(A), OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
4. THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY. [ECM 1.4.4.D.4]

CONSTRUCTION SPOILS NOTE:

ALL SPOILS ARE TO BE PLACED BACK IN TRENCH EVERY NIGHT; OR IF SPOILS ARE TO REMAIN OVERNIGHT, SPOILS MUST BE PLACED UPHILL SIDE OF TRENCH WITHIN LOC.

CONSTRUCTION STAGING & LAY DOWN AREA NOTES:

CONTRACTOR TO COORDINATE LOCATION OF STAGING AND LAYDOWN AREA.

TREE PROTECTION NOTES:

1. CHAIN LINK FENCE SHALL BE ERECTED PRIOR TO ANY CLEARING, GRUBBING OR SITE WORK OF ANY KIND. FENCING SHALL STAY ERECTED UNTIL FINAL LANDSCAPE OPERATIONS COMMENCE.
2. ANY PRUNING TO PROVIDE CLEARANCE TO PRESERVED TREES MUST BE APPROVED BY THE URBAN FORESTER AND THE PROJECT LANDSCAPE ARCHITECT.
3. DO NOT REMOVE ANY TREES OVER 1" CALIPER WITHIN THE TREE PROTECTION FENCING OUR OUTSIDE THE LIMIT OF CONSTRUCTION.
4. IF OBVIOUS DUST BUILD-UP FROM CONSTRUCTION ACTIVITY IS NOT REMOVED BY NATURAL RAINFALL, UTILIZE A WATER TRUCK TO WASH BUILD-UP FROM THE CANOPY. THE LANDSCAPE ARCHITECT OF UT URBAN FORESTER SHALL DETERMINE WHEN NECESSARY.
5. TREE ROOT CUTS SHALL BE MECHANICALLY CUT AT THE DIRECTION OF A CERTIFIED ARBORIST. CUTS SHALL BE CLEAN CUTS, WITHOUT PULLING OR TEARING.
6. CONTRACTOR SHALL PROVIDE DEEP ROOT FERTILIZATION FOR ALL TREES WITHIN THE PROJECT LIMITS. FERTILIZATION SHALL BE DONE THREE TIMES - AT THE COMMENCEMENT OF CONSTRUCTION, AT 50% COMPLETION AND AT THE COMMENCEMENT OF LANDSCAPE INSTALLATION ACTIVITIES.
7. FERTILIZATION SHALL BE BY DEEP ROOT METHOD AT 2 TO 3 FOOT MATRIX SPACING DEPENDING ON AVAILABLE ROOT AREA. MATERIALS ARE TO BE SLOW RELEASE AT A 3-1-1 RATIO. FIRST TREATMENT BEFORE CONSTRUCTION THEN REPEAT TREATMENTS AT 6 MONTH INTERVALS.
8. ALL TREES IMPACTED BY CONSTRUCTION ARE TO BE TREATED BEFORE CONSTRUCTION BEGINS WITH SYSTEMIC INSECTICIDE AND FUNGICIDE.
9. ALL TREES IMPACTED BY CONSTRUCTION ARE TO BE SPRAYED TO CONTROL EARLY SPRING DEFOLIATING CATERPILLARS.
10. ALL TREES IMPACTED BY CONSTRUCTION ARE TO BE WATERED ONCE EVERY 7 TO 14 DAYS DURING LATE SPRING, SUMMER AND EARLY FALL IN LIEU OF 1/2 INCH OF RAINFALL.
11. A LICENSED ARBORIST MUST INSPECT THE TREES ONCE A MONTH FOR HEALTH DURING CONSTRUCTION OF PROJECT. A REPORT MUST BE SUBMITTED BY THE ARBORIST TO THE GENERAL CONTRACTOR AND LANDSCAPE ARCHITECT.
12. ALL CONSTRUCTION WITHIN THE $\frac{1}{2}$ CRITICAL ROOT ZONE OF IMPACTED TREES NEEDS TO DONE WITH HAND TOOLS OR AIR SPADE. NO ROOTS OVER 1" SHOULD BE TRIMMED

GENERAL NOTES:

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WATER NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WATER SERVICE TO EXISTING WATER MAINS AND SERVICES AT ALL TIMES.
2. CONTRACTOR SHALL PROTECT AND REPAIR (IF DAMAGED) ANY EXISTING WATER, SEWER OR GAS SERVICE LATERALS AND IRRIGATION SHOWN OR NOT SHOWN ON THE PLANS.
3. NO EXISTING VALVES TO BE OPERATED BY THE CONTRACTOR WITHOUT DIRECTION FROM CITY OF AUSTIN WATER UTILITY PERSONNEL.
4. THE UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND FOR INFORMATION ONLY. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES (HORIZONTAL AND VERTICAL), AND SHALL BE RESPONSIBLE FOR DAMAGE TO THE UTILITIES CAUSED BY THE CONTRACTOR'S OPERATION.
5. CONTRACTOR SHALL EXPOSE ALL PIPELINE AND UTILITY CROSSINGS PRIOR TO ORDERING MATERIALS. NOTIFY THE ENGINEER IMMEDIATELY IF A CONFLICT IS FOUND AND RECORD ALL NEEDED GRADE ADJUSTMENTS IN THE PROJECT SET OF AS-BUILT DRAWINGS.

SEWER NOTES:

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NORTH

SCALE IN FEET (1"=100')

0 25 50 100 250

SITE PLAN RELEASE Sheet 21 of 54

FILE NUMBER: _____ EXPIRATION DATE: _____
CASE MANAGER: _____ APPLICATION DATE: _____
APPROVED ADMINISTRATIVELY ON: _____
APPROVED BY PLANNING COMMISSION ON: _____
APPROVED BY CITY COUNCIL ON: _____
Under Section _____ of Chapter _____ of the Austin City Code.

Signing For Director, Development Services Department

DATE OF RELEASE: _____ ZONING: _____
Rev. 1 _____ Correction 1 _____
Rev. 2 _____ Correction 2 _____
Rev. 3 _____ Correction 3 _____

RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA. INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS.

ARCADIS
FIRM REGISTRATION NUMBER: F-533

REGISTERED LANDSCAPE ARCHITECT
MARISSA MCKINNEY
3823
STATE OF TEXAS
08/12/2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN FOUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

COPYRIGHT:	ARCADIS U.S., INC.
DATE:	AUGUST 12 2020
PROJECT NO.:	02908105.0000
DESIGNED BY:	MAM
DRAWN BY:	NAS
CHECKED BY:	MAM

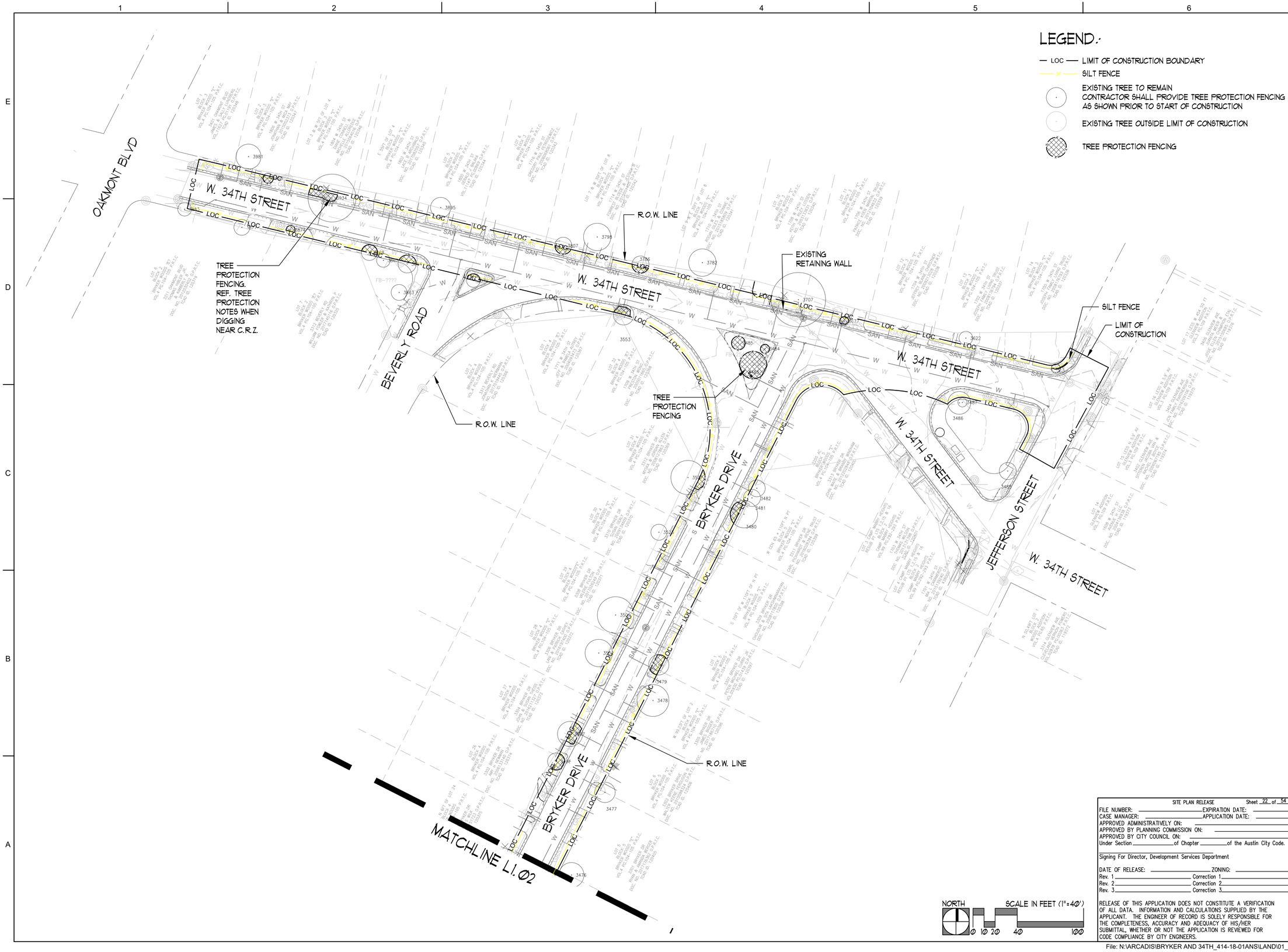
SHEET TITLE

LANDSCAPE ARCHITECTURE

EROSION AND SEDIMENT CONTROL PLAN

SCALE:
1" = 100'-0"

SHEET L1.00
21 OF 55



ARCADIS
FIRM REGISTRATION NUMBER: F-533

REGISTERED LANDSCAPE ARCHITECT
MARISSA MCKINNEY
NO. 3223
STATE OF TEXAS
08/12/2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN
FOUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: AUGUST 12 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: MAM
DRAWN BY: NAS
CHECKED BY: MAM

SHEET TITLE

LANDSCAPE ARCHITECTURE

EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 40'-0"

SHEET L1.01
22 OF 55

SITE PLAN RELEASE Sheet 22 of 54
FILE NUMBER: _____ EXPIRATION DATE: _____
CASE MANAGER: _____ APPLICATION DATE: _____
APPROVED ADMINISTRATIVELY ON: _____
APPROVED BY PLANNING COMMISSION ON: _____
APPROVED BY CITY COUNCIL ON: _____
Under Section _____ of Chapter _____ of the Austin City Code.

Signing For Director, Development Services Department

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Rev. 1 _____ Correction 1 _____
Rev. 2 _____ Correction 2 _____
Rev. 3 _____ Correction 3 _____

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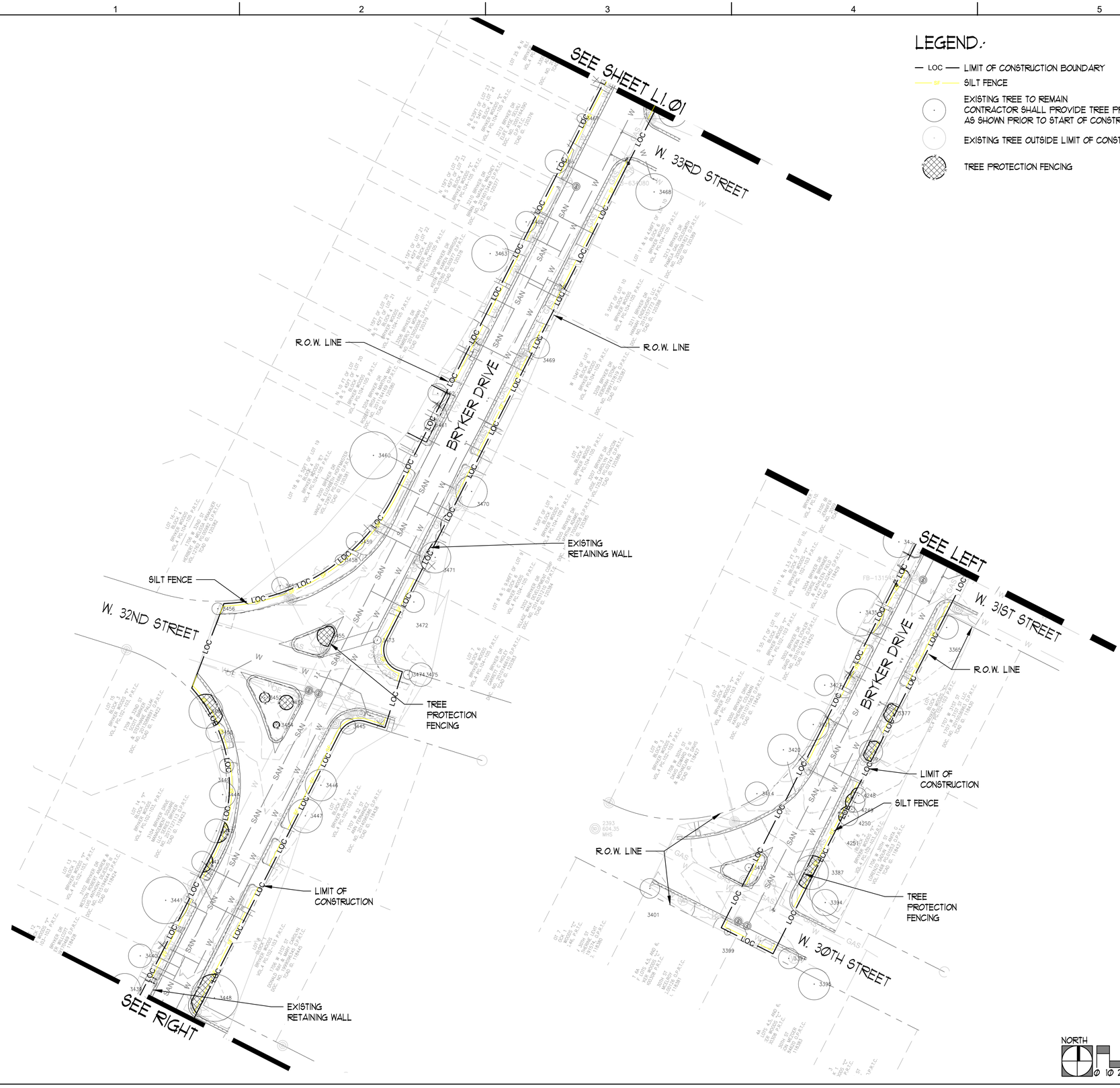

LEGEND:

- LOC — LIMIT OF CONSTRUCTION BOUNDARY
- SF — SILT FENCE
- EXISTING TREE TO REMAIN
  CONTRACTOR SHALL PROVIDE TREE PROTECTION FENCING AS SHOWN PRIOR TO START OF CONSTRUCTION
- EXISTING TREE OUTSIDE LIMIT OF CONSTRUCTION
- TREE PROTECTION FENCING

NORTH

SCALE IN FEET (1"=40')

0 10 20 40 100

ARCADIS
FIRM REGISTRATION NUMBER: F-533

REGISTERED LANDSCAPE ARCHITECT
MARISSA MCKINNEY
No. 3823
STATE OF TEXAS

08/12/2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN FOUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

COPYRIGHT:	ARCADIS U.S., INC.
DATE:	AUGUST 12 2020
PROJECT NO.:	02908105.0000
DESIGNED BY:	MAM
DRAWN BY:	NAS
CHECKED BY:	MAM

SHEET TITLE

LANDSCAPE ARCHITECTURE

EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1" = 40'-0"

SHEET L1.02

23 OF 55

SITE PLAN RELEASE — Sheet 23 of 54

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APPENDIX P-1 - EROSION CONTROL NOTES

1. The contractor shall install erosion/sedimentation controls, tree/natural area protective fencing, and conduct "Pre-Construction" tree fertilization (if applicable) prior to any site preparation work (clearing, grubbing or excavation).
2. The placement of erosion/sedimentation controls shall be in accordance with the Environmental Criteria Manual and the approved Erosion and Sedimentation Control Plan. The COA ESC Plan shall be consulted and used as the basis for a TPDES required SWPPP. If a SWPPP is required, it shall be available for review by the City of Austin Environmental Inspector at all times during construction, including at the Pre-Construction meeting. The checklist below contains the basic elements that shall be reviewed for permit approval by COA EV Plan Reviewers as well as COA EV Inspectors.
   - -- Plan sheets submitted to the City of Austin MUST show the following:
   - ✓ Direction of flow during grading operations.
   - ✓ Location, description, and calculations for off-site flow diversion structures.
   - ✓ Areas that will not be disturbed; natural features to be preserved.
   - ✓ Delineation of contributing drainage area to each proposed BMP (e.g., silt fence, sediment basin, etc.).
   - ✓ Location and type of E&S BMPs for each phase of disturbance.
   - ✓ Calculations for BMPs as required.
   - ✓ Location and description of temporary stabilization measures.
   - ✓ Location of on-site spoils, description of handling and disposal of borrow materials, and description of on-site permanent spoils disposal areas, including size, depth of fill and revegetation procedures.
   - ✓ Describe sequence of construction as it pertains to ESC including the following elements:
   - Installation sequence of controls (e.g. perimeter controls, then sediment basins, then temporary stabilization, then permanent, etc.)
   - Project phasing if required (LOC greater than 25 acres)
   - Sequence of grading operations and notation of temporary stabilization measures to be used
   - Schedule for converting temporary basins to permanent WQ controls
   - Schedule for removal of temporary controls
   - Anticipated maintenance schedule for temporary controls
   - -- Categorize each BMP under one of the following areas of BMP activity as described below:
     - 2.1 Minimize disturbed area and protect natural features and soil
     - 2.2 Control Stormwater flowing onto and through the project
     - 2.3 Stabilize Soils
     - 2.4 Protect Slopes
     - 2.5 Protect Storm Drain Inlets
     - 2.6 Establish Perimeter Controls and Sediment Barriers
     - 2.7 Retain Sediment On-Site and Control Dewatering Practices
     - 2.8 Establish Stabilized Construction Exits
     - 2.9 Any Additional BMPs
   - -- Note the location of each BMP on your site map(s).
   - -- For any structural BMPs, you should provide design specifications and details and refer to them.
   - -- For more information, see City of Austin Environmental Criteria Manual 1.4.
3. The Placement of tree/natural area protective fencing shall be in accordance with the City of Austin standard Notes for Tree and Natural Area Protection and the approved Grading/Tree and Natural Area Plan.
4. A pre-construction conference shall be held on-site with the contractor, design Engineer/permit applicant and Environmental Inspector after installation of the erosion/sedimentation controls, tree/natural area protection measures and "Pre-Construction" tree fertilization (if applicable) prior to beginning any site preparation work. The owner or owner's representative shall notify the Development Services Department, 512-974-2278 or by email at environmental.inspections@austintexas.gov, at least three days prior to the meeting date. COA approved ESC Plan and TPDES SWPPP (if required) should be reviewed by COA EV Inspector at this time.
5. Any major variation in materials or locations of controls or fences from those shown on the approved plans will require a revision and must be approved by the reviewing Engineer, Environmental Specialist or City Arborist as appropriate. Major revisions must be approved by authorized COA staff. Minor changes to be made as field revisions to the Erosion and Sedimentation Control Plan may be required by the Environmental Inspector during the course of construction to correct control inadequacies.
6. The contractor is required to provide a certified inspector that is either a licensed engineer (or person directly supervised by the licensed engineer) or Certified Professional in Erosion and Sediment Control (CPESC or CPESC - IT), Certified Erosion, Sediment and Stormwater - Inspector (CESSWI or CESSWI - IT) or Certified Inspector of Sedimentation and Erosion Controls (CISEC or CISEC - IT) certification to inspect the controls and fences at weekly or bi-weekly intervals and after one-half (½) inch or greater rainfall events to insure that they are functioning properly. The person(s) responsible for maintenance of controls and fences shall immediately make any necessary repairs to damaged areas. Silt accumulation at controls must be removed when the depth reaches six (6) inches or one-third (⅓) of the installed height of the control whichever is less.
7. Prior to final acceptance by the City, haul roads and waterway crossings constructed for temporary contractor access must be removed, accumulated sediment removed from the waterway and the area restored to the original grade and revegetated. All land clearing debris shall be disposed of in approved spoil disposal sites.
8. All work must stop if a void in the rock substrate is discovered which is; one square foot in total area; blows air from within the substrate and/or consistently receives water during any rain event. At this time it is the responsibility of the Project Manager to immediately contact a City of Austin Environmental Inspector for further investigation.
9. Temporary and Permanent Erosion Control: All disturbed areas shall be restored as noted below:
   A. All disturbed areas to be revegetated are required to place a minimum of six (6) inches of topsoil [see Standard Specification Item No. 601S.3(A)]. Do not add topsoil within the critical root zone of existing trees.

      Topsoil salvaged from the existing site is encouraged for use, but it should meet the standards set forth in 601S.

      An owner/engineer may propose use of onsite salvaged topsoil which does not meet the criteria of Standard Specification 601S by providing a soil analysis and a written statement from a qualified professional in soils, landscape architecture, or agronomy indicating the onsite topsoil will provide an equivalent growth media and specifying what, if any, soil amendments are required.

      Soil amendments shall be worked into the existing onsite topsoil with a disc or tiller to create a well-blended material.

The vegetative stabilization of areas disturbed by construction shall be as follows:

TEMPORARY VEGETATIVE STABILIZATION:

10. From September 15 to March 1, seeding shall be with or include a cool season cover crop: (Western Wheatgrass (*Pascopyrum smithii*) at 5.6 pounds per acre, Oats (*Avena sativa*) at 4.0 pounds per acre, Cereal Rye Grain (*Secale cereale*) at 45 pounds per acre. Contractor must ensure that any seed application requiring a cool season cover crop does not utilize annual ryegrass (*Lolium multiflorum*) or perennial ryegrass (*Lolium perenne*). Cool season cover crops are not permanent erosion control.
11. From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 45 pounds per acre or a native plant seed mix conforming to Item 604S or 609S.
    A. Fertilizer shall be applied only if warranted by a soil test and shall conform to Item No. 606S, Fertilizer. Fertilization should not occur when rainfall is expected or during slow plant growth or dormancy. Chemical fertilizer may not be applied in the Critical Water Quality Zone.
    B. Hydromulch shall comply with Table 1, below.
    C. Temporary erosion control shall be acceptable when the grass has grown at least 1½ inches high with a minimum of 95% total coverage so that all areas of a site that rely on vegetation for temporary stabilization are uniformly vegetated, and provided there are no bare spots larger than 10 square feet.
    D. When required, native plant seeding shall comply with requirements of the City of Austin Environmental Criteria Manual, and Standard Specification 604S or 609S.

Table 1: Hydromulching for Temporary Vegetative Stabilization

Material	Description	Longevity	Typical Applications	Application Rates
100% or any blend of wood, cellulose, straw, and/or cotton plant material (except no mulch shall exceed 30% paper)	70% or greater	0—3 months	Moderate slopes; from flat to 3:1	1,500 to 2,000 lbs per acre
	Wood/Straw 30% or less Paper or Natural Fibers			

PERMANENT VEGETATIVE STABILIZATION:

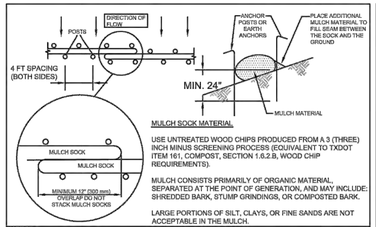
12. From September 15 to March 1, seeding is considered to be temporary stabilization only. If cool season cover crops exist where permanent vegetative stabilization is desired, the grasses shall be mowed to a height of less than one-half (½) inch and the area shall be re-seeded in accordance with Table 2 below. Alternatively, the cool season cover crop can be mixed with Bermudagrass or native seed and installed together, understanding that germination of warm-season seed typically requires soil temperatures of 60 to 70 degrees.
13. From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 45 pounds per acre with a purity of 95% and a minimum pure live seed (PLS) of 0.83. Bermuda grass is a warm season grass and is considered permanent erosion control. Permanent vegetative stabilization can also be accomplished with a native plant seed mix conforming to Item 604S or 609S.
    A. Fertilizer use shall follow the recommendation of a soil test. See Item 606S, Fertilizer. Applications of fertilizer (and pesticide) on City-owned and managed property requires the yearly submittal of a Pesticide and Fertilizer Application Record, along with a current copy of the applicator's license. For current copy of the record template contact the City of Austin's IPM Coordinator.
    B. Hydromulch shall comply with Table 2, below.
    C. Water the seeded areas immediately after installation to achieve germination and a healthy stand of plants that can ultimately survive without supplemental water. Apply the water uniformly to the planted areas without causing displacement or erosion of the materials or soil. Maintain the seedbed in a moist condition favorable for plant growth. All watering shall comply with City Code Chapter 6-4 (Water Conservation), at rates and frequencies determined by a licensed irrigator or other qualified professional, and as allowed by the Austin Water Utility and current water restrictions and water conservation initiatives.
    D. Permanent erosion control shall be acceptable when the grass has grown at least 1½ inches high with a minimum of 95 percent for the non-native mix, and 95 percent coverage for the native mix so that all areas of a site that rely on vegetation for stability must be uniformly vegetated, and provided there are no bare spots larger than 10 square feet.
    E. When required, native plant seeding shall comply with requirements of the City of Austin Environmental Criteria Manual, Items 604S and 609S.

Table 2: Hydromulching for Permanent Vegetative Stabilization

Material	Description	Longevity	Typical Applications	Application Rates
Bonded Fiber Matrix (BFM)	80% Organic defibrated fibers			
10% Tackifier	6 months	On slopes up to 2:1 and erosive soil conditions	2,500 to 4,000 lbs per acre (see manufacturers recommendations)	
Fiber Reinforced Matrix (FRM)	65% Organic defibrated fibers	Up to 12 months	On slopes up to 1:1 and erosive soil conditions	3,000 to 4,500 lbs per acre (see manufacturers recommendations)
	25% Reinforcing Fibers or less			
	10% Tackifier			

14. The contractor shall not dispose of surplus excavated material from the site without notifying the Development Services Department at 512-974-2278 at least 48 hours prior with the location and a copy of the permit issued to receive the material.

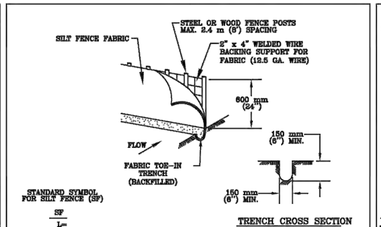
Source: Rule No. R161-15.13, 1-4-2016 ; Rule No. R161-17.03 , 3-2-2017.



NOTES:

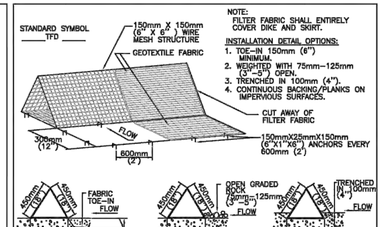
1. STEEL OR WOOD POSTS WHICH SUPPORT THE MULCH SOCK SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 600mm (24 inches), IF WOOD POSTS CANNOT ACHIEVE 600mm (24 inches) DEPTH, USE STEEL POSTS. EARTH ANCHORS ARE ALSO ACCEPTABLE.
2. THE TOE OF THE MULCH SOCK SHALL BE PLACED SO THAT THE MULCH SOCK IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. IN ORDER TO PREVENT WATER FROM FLOWING BETWEEN THE JOINTS OF ADJACENT ENDS OF MULCH SOCKS, LAP THE ENDS OF ADJACENT MULCH SOCKS A MINIMUM OF 300mm (12 inches).
3. MULCH MATERIAL MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH; IT IS NOT ACCEPTABLE FOR THE MULCH MATERIAL TO CONTAIN GROUND CONSTRUCTION DEBRIS, BIOSOLIDS, OR MANURE.
4. SOCK MATERIAL WILL BE 100% BIODEGRADABLE, PHOTODEGRADABLE, OR RECYCLABLE SUCH AS BURLAP, TWINE, UV PHOTOBIODEGRADABLE PLASTIC, POLYESTER, OR ANY OTHER ACCEPTABLE MATERIAL.
5. MULCH SOCKS SHOULD BE USED AT THE BASE OF SLOPES NO STEEPER THAN 2:1 AND SHOULD NOT EXCEED THE MAXIMUM SPACING CRITERIA PROVIDED IN CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL TABLE 1.4.5.F.1 FOR A GIVEN SLOPE CATEGORY.
6. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150mm (6 inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		MULCH SOCK
RECORD COPY SIGNED BY MORGAN BYARS 08/24/2010 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 648S-1



1. STEEL OR WOOD POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 300 mm (12 INCHES). IF WOOD POSTS CANNOT ACHIEVE 300 mm (12 inches) DEPTH, USE STEEL POSTS.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
3. THE TRENCH MUST BE A MINIMUM OF 150 mm (6 inches) DEEP AND 150 mm (6 inches) WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE FABRIC SHOULD BE SECURELY FASTENED TO EACH STEEL OR WOOD SUPPORT POST OR TO WOVEN WIRE , WHICH IS IN TURN ATTACHED TO THE STEEL OR WOOD FENCE POST.
5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150 mm (6 inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		SILT FENCE
RECORD COPY SIGNED BY MORGAN BYARS 09/01/2011 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 642S-1

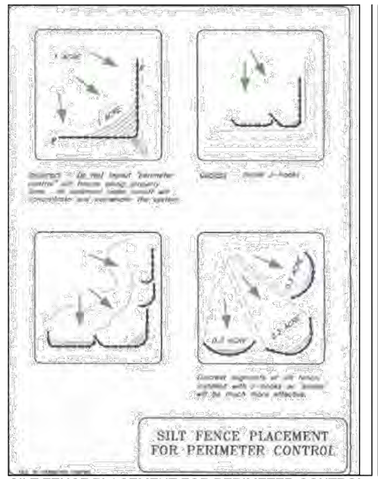


NOTE:
FILTER FABRIC SHALL ENTIRELY COVER DIKE AND SKIRT.

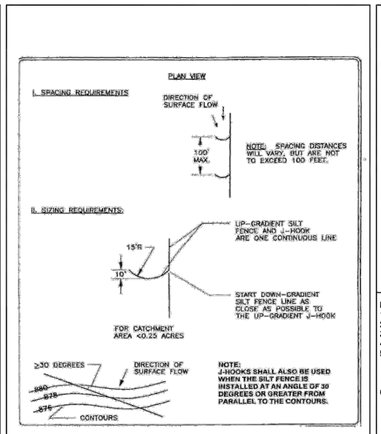
INSTALLATION DETAIL OPTIONS:
1. TOE-IN 150mm (6") MINIMUM.
2. WEIGHTED WITH 75mm–125mm (3"–5") OPEN
3. TRENCHED IN 100mm (4").
4. CONTINUOUS BACKING/PLANKS ON IMPERVIOUS SURFACES.

GENERAL NOTES
1. DIKES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT DIKE.
2. THE FABRIC COVER AND SKIRT SHALL BE A CONTINUOUS WRAPPING OF GEOTEXTILE. THE SKIRT SHALL BE A CONTINUOUS EXTENSION OF THE FABRIC ON THE UPSTREAM FACE.
3. THE SKIRT SHALL BE WEIGHTED WITH A CONTINUOUS LAYER OF 75–125mm (3–5") OPEN GRADED ROCK OR TOED–IN 150mm (6") WITH MECHANICALLY COMPACTED MATERIAL. OTHERWISE, THE ENTIRE STRUCTURE SHALL BE TRENCHED IN 100mm (4").
4. DIKES AND SKIRT SHALL BE SECURELY ANCHORED IN PLACE USING 150mm (6") WIRE STAPLES ON 800mm (2') CENTERS ON BOTH EDGES AND SKIRT, OR STAKE USING 10M (3/8 ") DIAMETER RE–BAR WITH TEE ENDS.
5. FILTER MATERIAL SHALL BE LAPPED OVER ENDS 150mm (6") TO COVER DIKE TO DIKE JOINTS. JOINTS SHALL BE FASTENED WITH GALVANIZED SHOAT RINGS.
6. THE DIKE STRUCTURE SHALL BE MW40–150mmX150mm (6 GA. 6"X6") WIRE MESH, 450mm (18") ON A SIDE.
7. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.
8. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150mm (6") AND DISPOSED OF IN A MANNER WHICH WILL NOT CAUSE ADDITIONAL SILTATION.
9. AFTER THE DEVELOPMENT SITE IS COMPLETELY STABILIZED, THE DIKES AND ANY REMAINING SILT SHALL BE REMOVED. SILT SHALL BE DISPOSED OF AS INDICATED IN GENERAL NOTE 8 ABOVE.

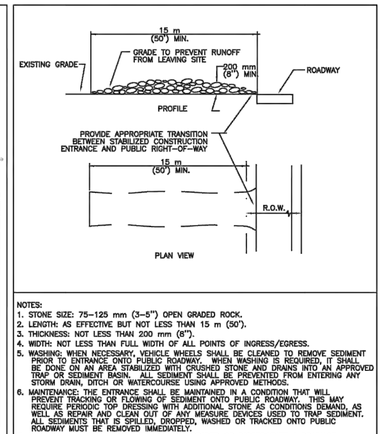
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		TRIANGULAR SEDIMENT FILTER DIKE
RECORD COPY SIGNED BY J. PATRICK MURPHY 3/27/00 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 628S



SILT FENCE PLACEMENT FOR PERIMETER CONTROL
ECM FIGURE 1.4.5.G.3 (1)
NOT TO SCALE

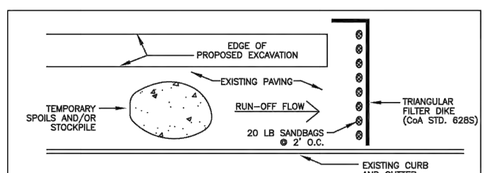


SILT FENCE J-HOOK DETAIL
ECM FIGURE 1.4.5.G.4 (2)
NOT TO SCALE



NOTES:
1. STONE SIZE: 75–125 mm (3–5") OPEN GRADED ROCK.
2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 15 m (50').
3. THICKNESS: NOT LESS THAN 200 mm (8").
4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
5. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVISED USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT		STABILIZED CONSTRUCTION ENTRANCE
RECORD COPY SIGNED BY J. PATRICK MURPHY 5/23/00 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 641S-1



NOTES:

1. THE TEMPORARY SPOILS/STOCKPILE STORAGE AREA AND STAGING AREA MAY BE LOCATED DIRECTLY ADJACENT TO THE EXCAVATION AND ON THE PAVEMENT.
2. ANY SPOIL NOT INTENDED TO BE REUSED WILL BE HAULED TO AN APPROVED OR PERMITTED DISPOSAL SITE DAILY.
3. INSTALL TRIANGULAR SEDIMENT FILTER DIKE (DETAIL 628S) ACROSS FULL WIDTH OF TRAFFIC CLOSURE AND DOWNSTREAM OF CONSTRUCTION AREA, PERPENDICULAR TO CURB AND PLACED TO EFFECTIVELY CATCH AND CONTAIN SEDIMENT LADEN RUNOFF FROM THE EXCAVATED AREA. FILTER DIKE TO FOLLOW ACTIVE CONSTRUCTION. REMOVING AND RE-SETTING FILTER DIKE IS CONSIDERED SUBSIDIARY TO BARRICADES AND TRAFFIC HANDLING.

ADDITIONAL EROSION/SEDIMENTATION CONTROL FOR WORK IN PAVED AREAS FOR GENERAL PERMIT PROGRAM PROJECTS

ARCADIS
FIRM REGISTRATION NUMBER: F-533

REGISTERED LANDSCAPE ARCHITECT — MARISSA MCKINNEY — No. 3223 — STATE OF TEXAS
08/12/2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

COPYRIGHT: ARCADIS U.S., INC.
DATE: AUGUST 12 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: MAM
DRAWN BY: NAS
CHECKED BY: MAM

SHEET TITLE
LANDSCAPE ARCHITECTURE

EROSION AND SEDIMENT CONTROL DETAILS

SCALE:

SHEET L1.10
24 OF 55

SITE PLAN RELEASE Sheet 24 of 54
FILE NUMBER: _____ EXPIRATION DATE: _____
CASE MANAGER: _____ APPLICATION DATE: _____
APPROVED ADMINISTRATIVELY ON: _____
APPROVED BY PLANNING COMMISSION ON: _____
APPROVED BY CITY COUNCIL ON: _____
Under Section _____ of Chapter _____ of the Austin City Code.
_____
Signing For Director, Development Services Department
DATE OF RELEASE: _____ ZONING: _____
Rev. 1 _____ Correction 1 _____
Rev. 2 _____ Correction 2 _____
Rev. 3 _____ Correction 3 _____

RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA. INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS.

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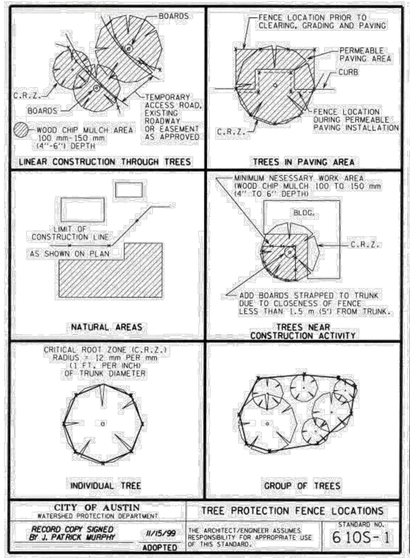
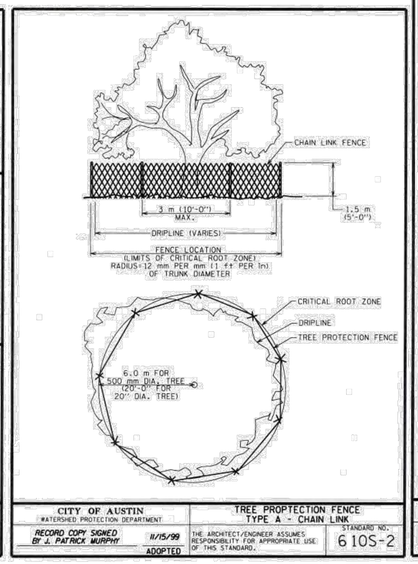
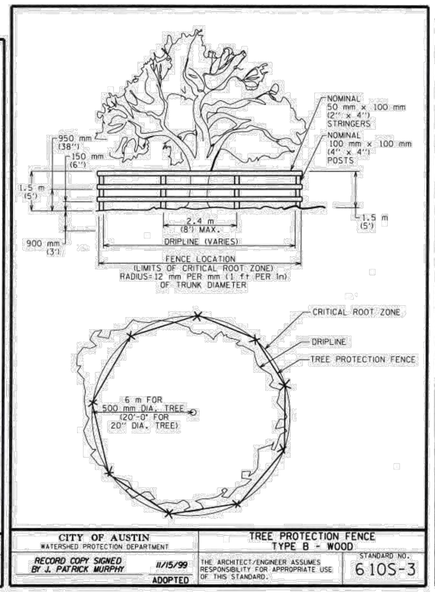


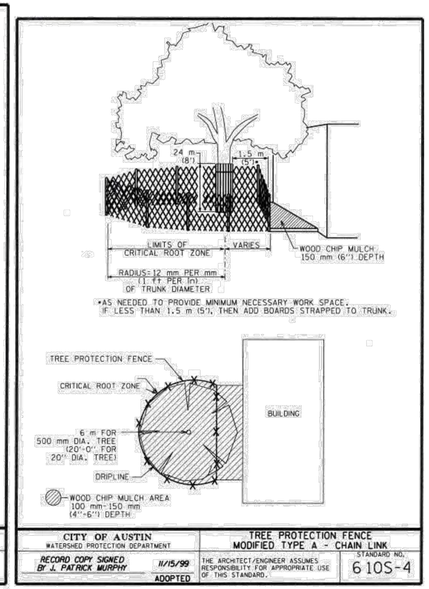
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	TREE PROTECTION FENCE LOCATIONS	
RECORD COPY SIGNED BY J. PATRICK MURPHY 11/15/99 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-1



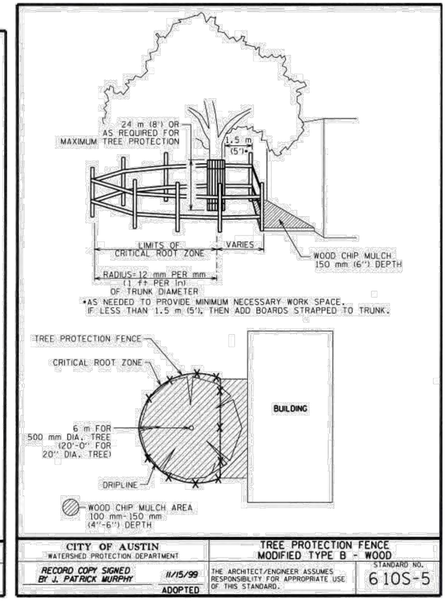
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	TREE PROPTECTION FENCE TYPE A - CHAIN LINK	
RECORD COPY SIGNED BY J. PATRICK MURPHY 11/15/99 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-2



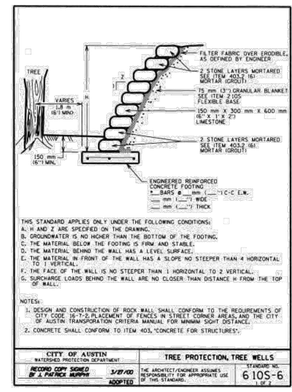
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	TREE PROTECTION FENCE TYPE B - WOOD	
RECORD COPY SIGNED BY J. PATRICK MURPHY 11/15/99 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-3



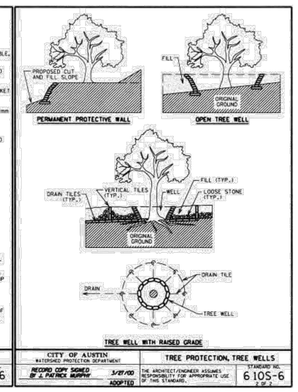
CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	TREE PROTECTION FENCE MODIFIED TYPE A - CHAIN LINK	
RECORD COPY SIGNED BY J. PATRICK MURPHY 11/15/99 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-4



CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	TREE PROTECTION FENCE MODIFIED TYPE B - WOOD	
RECORD COPY SIGNED BY J. PATRICK MURPHY 11/15/99 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-5



CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	TREE PROTECTION, TREE WELLS	
RECORD COPY SIGNED BY J. PATRICK MURPHY 3/27/00 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-6 1 OF 2



CITY OF AUSTIN WATERSHED PROTECTION DEPARTMENT	TREE PROTECTION, TREE WELLS	
RECORD COPY SIGNED BY J. PATRICK MURPHY 3/27/00 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 610S-6 2 OF 2

SITE PLAN RELEASE Sheet 25 of 54

FILE NUMBER: _____ EXPIRATION DATE: _____
CASE MANAGER: _____ APPLICATION DATE: _____
APPROVED ADMINISTRATIVELY ON: _____
APPROVED BY PLANNING COMMISSION ON: _____
APPROVED BY CITY COUNCIL ON: _____
Under Section _____ of Chapter _____ of the Austin City Code.

_____
Signing For Director, Development Services Department

DATE OF RELEASE: _____ ZONING: _____
Rev. 1 _____ Correction 1 _____
Rev. 2 _____ Correction 2 _____
Rev. 3 _____ Correction 3 _____

RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA. INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS.

ARCADIS
FIRM REGISTRATION NUMBER: F-533

REGISTERED LANDSCAPE ARCHITECT
MARISSA MCKINNEY
No. 3223
STATE OF TEXAS
08/12/2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN FOUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: AUGUST 12 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: MAM
DRAWN BY: NAS
CHECKED BY: MAM

SHEET TITLE
LANDSCAPE ARCHITECTURE

EROSION AND SEDIMENT CONTROL DETAILS

SCALE:

SHEET L1.11
25 OF 55

SPEED LIMITS:
35 MPH – 35TH
30 MPH – 30TH
25 MPH – BRYKER, JEFFERSON, 34TH, BEVERLY, OAKMONT, 31ST, 32ND, 33RD

PARKING NOTE:

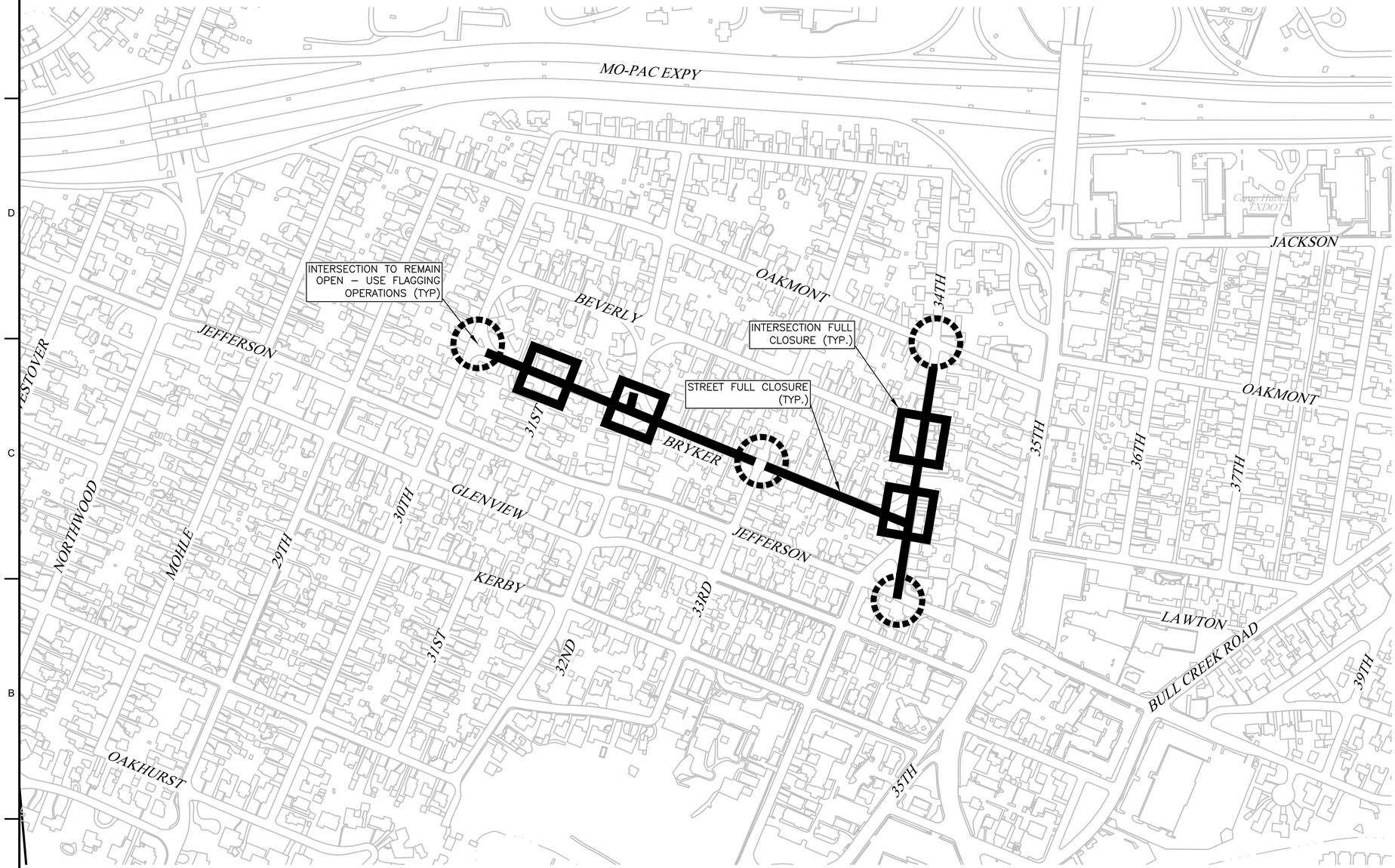
POST "NO PARKING" SIGNS ON BOTH SIDES OF STREET TO BE CLOSED 48 HOURS PRIOR TO CONSTRUCTION WORK ON A BLOCK BY BLOCK BASIS.

TRAFFIC CONTROL PLAN LEGEND

		DETOUR REQUIRED
○	INTERSECTIONS – USE 3–WAY OR 4–WAY FLAGGER SET–UP PER DETAILS, SHEET TC–22	NO
□	INTERSECTIONS – USE FULL CLOSURE PER DETAILS, SHEET TC–02	YES
▬	FULL CLOSURE – USE STREET DETOUR BOTH DIRECTIONS PER STD. DETAIL 804S–2 (6 OF 8)	YES
- - -	SINGLE LANE CLOSURE – USE COLLECTOR/RESIDENTIAL STREET FLAGGING OPERATIONS PER STD. DETAIL 804S–2 (1 OF 8).	NO

N

200 100 0 200
SCALE IN FEET



ARCADIS
FIRM REGISTRATION NUMBER: F-533

CAS CONSULTING & SERVICES, INC.
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Main: 512.836.2388 | Fax: 512.836.4515

STATE OF TEXAS
MICHAEL C. MERIWETHER
58563
LICENSED PROFESSIONAL ENGINEER
Michael Meriwether
08–21–2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: AUGUST 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: M. Meriwether
DRAWN BY: J. Willig
CHECKED BY: M. Meriwether

SHEET TITLE

TRAFFIC CONTROL

MASTER TRAFFIC CONTROL PLAN

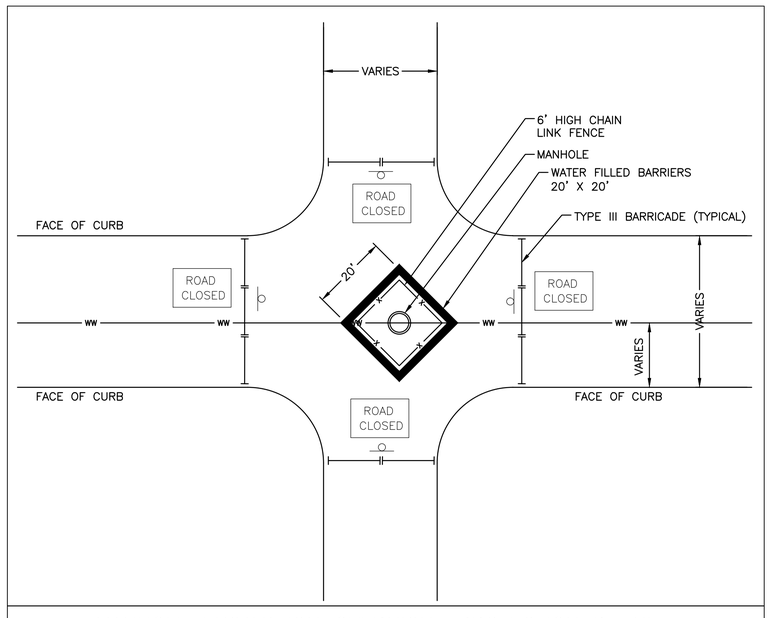
SCALE: 1" = 200'

SHEET TC-01
26 OF 55

STREET TRAFFIC CONTROL & WORK HOURS								
PROTECTION	STREET	STREET FROM	STREET TO	CLASS	SHEET	WATER, WASTEWATER & RESTORATION WORK HOURS	TRAFFIC CONTROL DETAILS – PIPELINE	STREET RESTORATION
	BRYKER	30TH	31ST	RES	TC-03	M-F: 9AM-4PM, SAT-SUN: 7AM-7PM (DAILY LANE CLOSURES)	804S-2 (6 OF 8) SEE SHEET TC-17	804S-2 (1 OF 8)
	BRYKER	31ST	32ND	RES	TC-05	M-F: 9AM-4PM, SAT-SUN: 7AM-7PM (DAILY LANE CLOSURES)	804S-2 (6 OF 8) SEE SHEET TC-17	804S-2 (1 OF 8)
	32ND	BRYKER	BEVERLY	RES	TC-07	M-F: 9AM-4PM, SAT-SUN: 7AM-7PM (DAILY LANE CLOSURES)	804S-2 (6 OF 8) SEE SHEET TC-17	804S-2 (1 OF 8)
	BRYKER	32ND	33RD	RES	TC-08	M-F: 9AM-4PM, SAT-SUN: 7AM-7PM (DAILY LANE CLOSURES)	804S-2 (6 OF 8) SEE SHEET TC-17	804S-2 (1 OF 8)
	BRYKER	33RD	34TH	RES	TC-09	M-F: 9AM-4PM, SAT-SUN: 7AM-7PM (DAILY LANE CLOSURES)	804S-2 (6 OF 8) SEE SHEET TC-17	804S-2 (1 OF 8)
	34TH	OAKMONT	BEVERLY	RES	TC-10	M-F: 9AM-4PM, SAT-SUN: 7AM-7PM (DAILY LANE CLOSURES)	804S-2 (6 OF 8) SEE SHEET TC-17	804S-2 (1 OF 8)
	34TH	BEVERLY	BRYKER	RES	TC-12	M-F: 9AM-4PM, SAT-SUN: 7AM-7PM (DAILY LANE CLOSURES)	804S-2 (6 OF 8) SEE SHEET TC-17	804S-2 (1 OF 8)
	34TH	BRYKER	JEFFERSON	RES	TC-14	M-F: 9AM-4PM, SAT-SUN: 7AM-7PM (DAILY LANE CLOSURES)	804S-2 (6 OF 8) SEE SHEET TC-17	

INTERSECTION TRAFFIC CONTROL & WORK HOURS							
PROTECTION	STREET	CROSSING STREET	CLASS	SHEET	WATER, WASTEWATER & RESTORATION WORK HOURS	TRAFFIC CONTROL DETAILS – PIPELINE	STREET RESTORATION
	30TH	BRYKER	RES	NA	M-F: 9AM-4PM, SAT-SUN: 7AM-7PM (DAILY LANE CLOSURES)	804S-2 (1 OF 8) W/ 3-WAY FLAGGER	804S-2 (1 OF 8)
	31ST	BRYKER	RES	TC-04	M-F: 9AM-4PM, SAT-SUN: 7AM-7PM (DAILY LANE CLOSURES)	804S-2 (1 OF 8)	804S-2 (1 OF 8)
	32ND	BRYKER	RES	TC-06	M-F: 9AM-4PM, SAT-SUN: 7AM-7PM (DAILY LANE CLOSURES)	804S-2 (1 OF 8)	804S-2 (1 OF 8)
	33RD	BRYKER	RES	NA	M-F: 9AM-4PM, SAT-SUN: 7AM-7PM (DAILY LANE CLOSURES)	804S-2 (1 OF 8) W/ 3-WAY FLAGGER	804S-2 (1 OF 8)
	OAKMONT	34TH	RES	NA	M-F: 9AM-4PM, SAT-SUN: 7AM-7PM (DAILY LANE CLOSURES)	804S-2 (1 OF 8) W/ 4-WAY FLAGGER	804S-2 (1 OF 8)
	BEVERLY	34TH	RES	TC-11	M-F: 9AM-4PM, SAT-SUN: 7AM-7PM (DAILY LANE CLOSURES)	804S-2 (1 OF 8)	804S-2 (1 OF 8)
	BRYKER	34TH	RES	TC-13	M-F: 9AM-4PM, SAT-SUN: 7AM-7PM (DAILY LANE CLOSURES)	804S-2 (1 OF 8)	804S-2 (1 OF 8)
	JEFFERSON	34TH	COL	TC-15	M-F: 9AM-4PM, SAT-SUN: 7AM-7PM (DAILY LANE CLOSURES)	804S-2 (1 OF 8)	804S-2 (1 OF 8)

NOTE: 24-HOUR CLOSURES ARE NOT PLANNED FOR THIS PROJECT. IF UNFORESEEN CIRCUMSTANCES REQUIRE IT, 24-HOUR CLOSURES ARE LIMITED TO MAXIMUM OF 3 DAYS. MANHOLE EXCAVATIONS LEFT OPEN OVER NIGHT SHALL BE PROTECTED WITH WATER-FILLED BARRIERS AND 6' HIGH CHAIN LINK FENCE THAT COMPLETELY SURROUND THE EXCAVATION. SEE DETAIL BELOW.



MANHOLE EXCAVATION OVERNIGHT PROTECTION DETAIL

RIGHT OF WAY MANAGEMENT STANDARD NOTES FOR TRAFFIC CONTROL PLANS

1. CONTRACTOR SHALL HAVE AN APPROVED RIGHT OF WAY (ROW) PERMIT AND TRAFFIC CONTROL PLAN (TCP) IN ELECTRONIC OR PAPER FORMATS ON SITE AT ALL TIMES WHEN WORKING IN THE ROW.
2. CONTRACTOR SHALL PROVIDE NOTIFICATION, AS PER THE LATEST MOBILITY GUIDELINES (MG-04).
3. UNLESS OTHERWISE APPROVED BY THE ROW DIVISION OF AUSTIN TRANSPORTATION DEPARTMENT (ATD): A.) ONLY ONE PHASE OF A TCP MAY BE SET AT ANY ONE TIME, AND B.) INITIAL SETUP AND PHASE CHANGES OF LONG-TERM WORK ZONES SHALL BE INSTALLED ON WEEKENDS.
4. ONCE TRAFFIC CONTROL HAS BEEN SET, THE AUTHORIZED AND COMPETENT REPRESENTATIVE FROM THE PROJECT TEAM/BARRICADE COMPANY WILL COMPLETE AND UPLOAD THE "CONTRACTOR'S SELF-INSPECTION CHECKLIST" FORM. SEE FORM AND DETAILED INSTRUCTIONS HERE: HTTPS://WWW.AUSTINTEXAS.GOV/PAGE/RIGHT-WAY-TRAFFIC-CONTROL
5. FOR ROW VIOLATIONS, AN INVESTIGATION FEE WILL BE ASSESSED FOR EACH OFFENSE UNTIL THE VIOLATION IS CORRECTED. SEE CURRENT FEE SCHEDULE HERE: HTTPS://WWW.AUSTINTEXAS.GOV/SITES/DEFAULT/FILES/FILES/TRANSPORTATION/RIGHT_OF_WAY/APPROVED_ROW_FEES.PDF
6. EXCAVATIONS SHALL BE BACKFILLED OR PLATED WHEN REQUIRED TO OPEN TO TRAFFIC. TEMPORARY PAVING SHALL BE DONE ACCORDING TO CITY OF AUSTIN (COA) STANDARD DETAIL 1100S-4 (FOR HMAC OR PCC PAVEMENTS). FOR EXCAVATIONS EXCEEDING A TRANSVERSE WIDTH OF 5 FEET, THE CONTRACTOR SHALL PROVIDE AN ENGINEERED PLATING PLAN FOR REVIEW BY THE CITY.
7. PEDESTRIAN ROUTES IN AND AROUND THE WORK ZONE, INCLUDING CONSTRUCTION ENTRANCES, TEMPORARY WALKING PATHS, BYPASSES, COVERED WALKWAYS, AND DETOURS, MUST REMAIN ACCESSIBLE AND ADA COMPLIANT THROUGHOUT THE PROJECT.
8. ALL APPLICABLE SAFEGUARDS SHALL BE IN PLACE PER CHAPTER 33 OF THE INTERNATIONAL BUILDING CODE, TO INCLUDE PEDESTRIAN PROTECTIONS PER SECTION 3306.
9. "CONSTRUCTION ENTRANCE AHEAD" SIGNS MUST BE PLACED AT ALL APPROACHES TO CONSTRUCTION ENTRANCES, UNLESS OTHERWISE SHOWN ON THE APPROVED TCP.
10. EXISTING DRIVEWAYS SHALL NOT BE CLOSED EXCEPT WITH ADVANCE NOTICE TO THE AFFECTED BUSINESSES/RESIDENCES AND APPROVAL FROM THE ROW DIVISION OF ATD.
11. ALL TRAFFIC CONTROL DEVICES INCLUDING PROTECTIVE BARRIERS MUST BE CRASHWORTHY AND INSTALLED ACCORDING TO THE MANUFACTURER'S GUIDELINES. CRASHWORTHINESS SHALL BE DETERMINED PER MASH TESTING REQUIREMENTS.
12. OVERNIGHT PROTECTION OF WORK ZONES AND STORAGE OF MATERIAL/EQUIPMENT SHALL BE ACCORDING TO COA STANDARD DETAIL 804S-4.
13. THE NAME OF THE BARRICADE CONTRACTOR SHALL BE SHOWN ON THE NON-REFLECTIVE SURFACE OF ALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH COA STANDARD DETAIL 804S-5.
14. THE CITY'S TRAFFIC ENGINEER OR INSPECTOR MAY MAKE OR REQUIRE FIELD ADJUSTMENTS TO ADDRESS ISSUES OF SAFETY AND MOBILITY.
15. IF EXISTING CAPITAL METRO BUS STOPS ARE WITHIN THE TEMPORARY TRAFFIC CONTROL OR DETOUR AREA, THE CONTRACTOR SHALL CONTACT CAPITAL METRO (LAURIE MICHEL AT 512-621-5713 (MOBILE)/ 512-369-7701 (WORK), LAURIE.MICHEL@CAPMETRO.ORG), OR ~SERVICE.IMPACTS@CAPMETRO.ORG TWO (2) WEEKS PRIOR TO SETTING UP THE TRAFFIC CONTROL DEVICES IN ORDER TO COORDINATE POTENTIAL BUS-STOP RELOCATION OR ANY OTHER RELATED ISSUES.
16. IF EXISTING SIGNALIZED INTERSECTIONS ARE WITHIN THE TEMPORARY TRAFFIC CONTROL AREA, THE CONTRACTOR SHALL CONTACT ATD – SIGNALS DIVISION AT (512) 974-4075, ONE WEEK PRIOR TO SETTING TRAFFIC CONTROL DEVICES.
17. THE RIGHT OF WAY SHALL BE RETURNED TO FULL USE AT THE END OF THE APPROVED WORK HOURS.
18. CONTRACTORS SHALL ADHERE TO ALL ROW SPECIAL EVENT ACTIVITY RESTRICTIONS, AS PER THE LATEST MOBILITY GUIDELINES (MG-08).
19. PROJECTS THAT ARE ROUTED THROUGH THE DAPCZ PROCESS ARE REQUIRED TO COORDINATE WITH THE OFFICE OF SPECIAL EVENTS (512-974-1000 OR TRANSPORTATIONSPECIALEVENTS@AUSTINTEXAS.GOV), IN CONJUNCTION WITH THE ROW DIVISION OF ATD. VISIT CITY STAGE FOR SCHEDULED EVENTS FOR ALL OF AUSTIN.
20. PURSUANT TO CITY CODE 9-2-3, ROW WORK MUST NOT MAKE NOISE AUDIBLE TO AN ADJACENT BUSINESS OR RESIDENCE BETWEEN 10:30PM AND 7:00AM OR OPERATE A MACHINE THAT SEPARATES, GATHERS, GRADES, LOADS, OR UNLOADS SAND, ROCK, OR GRAVEL WITHIN 600 FEET OF A RESIDENCE, CHURCH, HOSPITAL, HOTEL, OR MOTEL BETWEEN 7:00PM AND 6:00AM, EXCEPT FOR INSTALLATION OF CONCRETE AUTHORIZED BY A SEPARATE NON-PEAK HOUR CONCRETE POUR PERMIT ISSUED UNDER CITY CODE SECTION 9-2-21.

REVISED 8/25/20

ARCADIS
FIRM REGISTRATION NUMBER: F-533

CAS CONSULTING & SERVICES, INC.
CIVIL ENGINEERING | PROGRAM MANAGEMENT | CONSTRUCTION MANAGEMENT
7908 Cameron Road | Austin, TX 78754 | REG. NO. F-003572
Main: 512.836.2388 | Fax: 512.836.4515

STATE OF TEXAS
MICHAEL C. MERIWETHER
58563
LICENSED
PROFESSIONAL ENGINEER
11-04-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

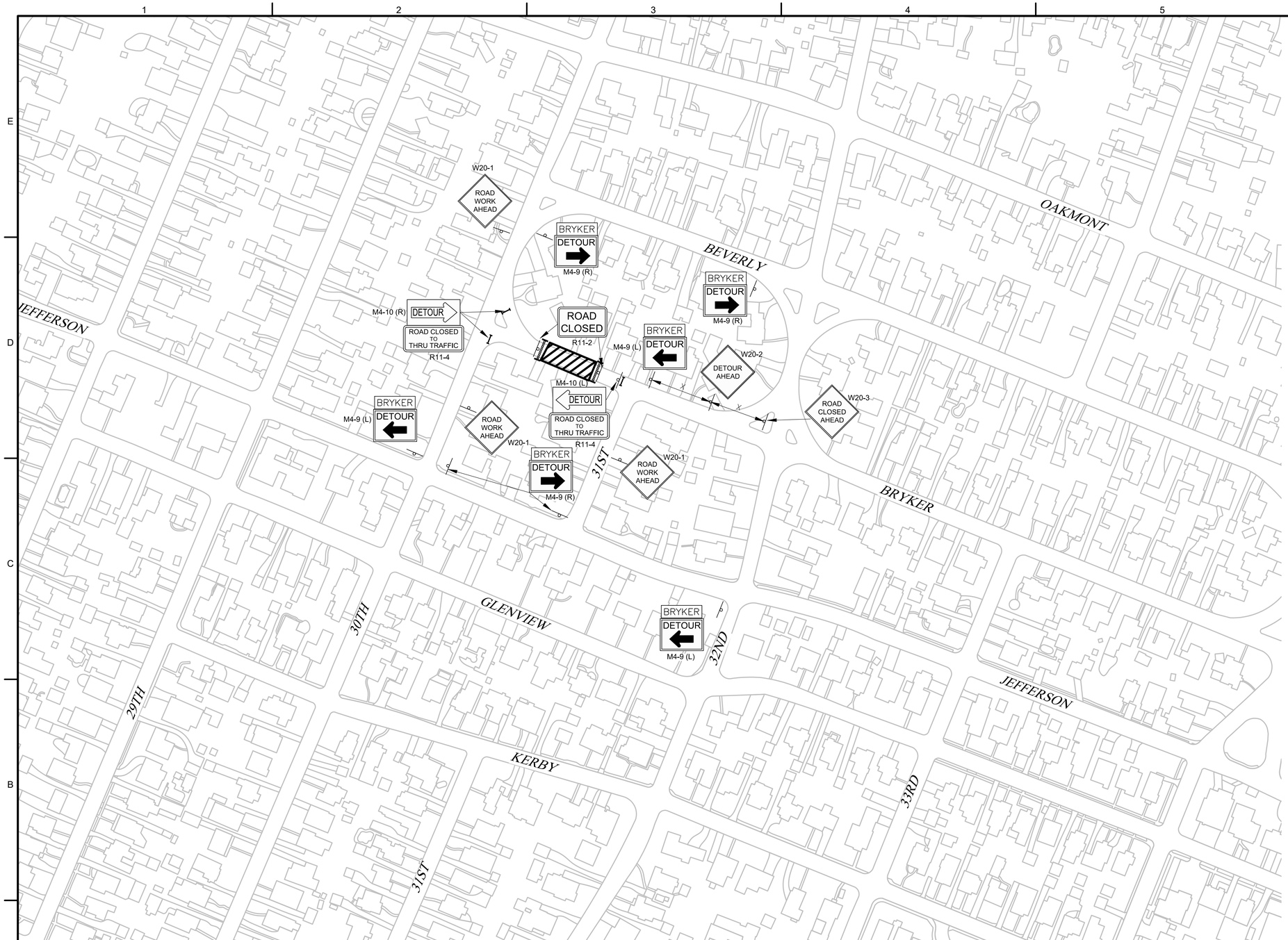
DATE: AUGUST 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: M. Meriwether
DRAWN BY: J. Willig
CHECKED BY: M. Meriwether

SHEET TITLE
TRAFFIC CONTROL

TRAFFIC CONTROL NOTES

SCALE: AS SHOWN

SHEET TC-02
27 OF 55



SCALE IN FEET

LEGEND

- SIGN
- TYPE III BARRICADE
- WORK ZONE
- CHANNELIZING DEVICES

NOTES:

1. ALL TRAFFIC CONTROL DEVICES TO MOVE WITH WORK AREA.
2. SPEED LIMITS FOR ALL CITY STREETS ARE SHOWN ON SHEET TC-01.
3. ROLLING CLOSURE OF WORK AREA LIMITED TO 300 L.F. AT A TIME WITH EXCAVATION LIMITED TO 100 L.F.
4. NOTIFY RESIDENTS 48 HOURS PRIOR TO CLOSURE.
5. INSTALL "NO PARKING" SIGNS ON BOTH SIDES OF STREET 48 HOURS PRIOR TO CLOSURE.
6. PUBLIC NOTIFICATION MUST OCCUR PRIOR TO CONSTRUCTION AND ACCOMMODATIONS FOR AFFECTED DRIVEWAYS MUST BE MADE. ALL EXCAVATIONS BLOCKING DRIVEWAY ACCESS MUST BE BACKFILLED/PLATED AFTER WORK HOURS.
7. CONTRACTOR SHALL MAINTAIN A 5' MINIMUM WIDTH SHARED USE PATH THROUGH THE WORK AREA. PATH SHALL BE SEPARATED FROM WORK AREA WITH PORTABLE SAFETY FENCING PER STANDARD DETAIL 804S-4 (1 OF 9).

ARCADIS
FIRM REGISTRATION NUMBER: F-533

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STATE OF TEXAS
MICHAEL C. MERIWETHER
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PROFESSIONAL ENGINEER
08-21-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: AUGUST 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: M. Meriwether
DRAWN BY: J. Willig
CHECKED BY: M. Meriwether

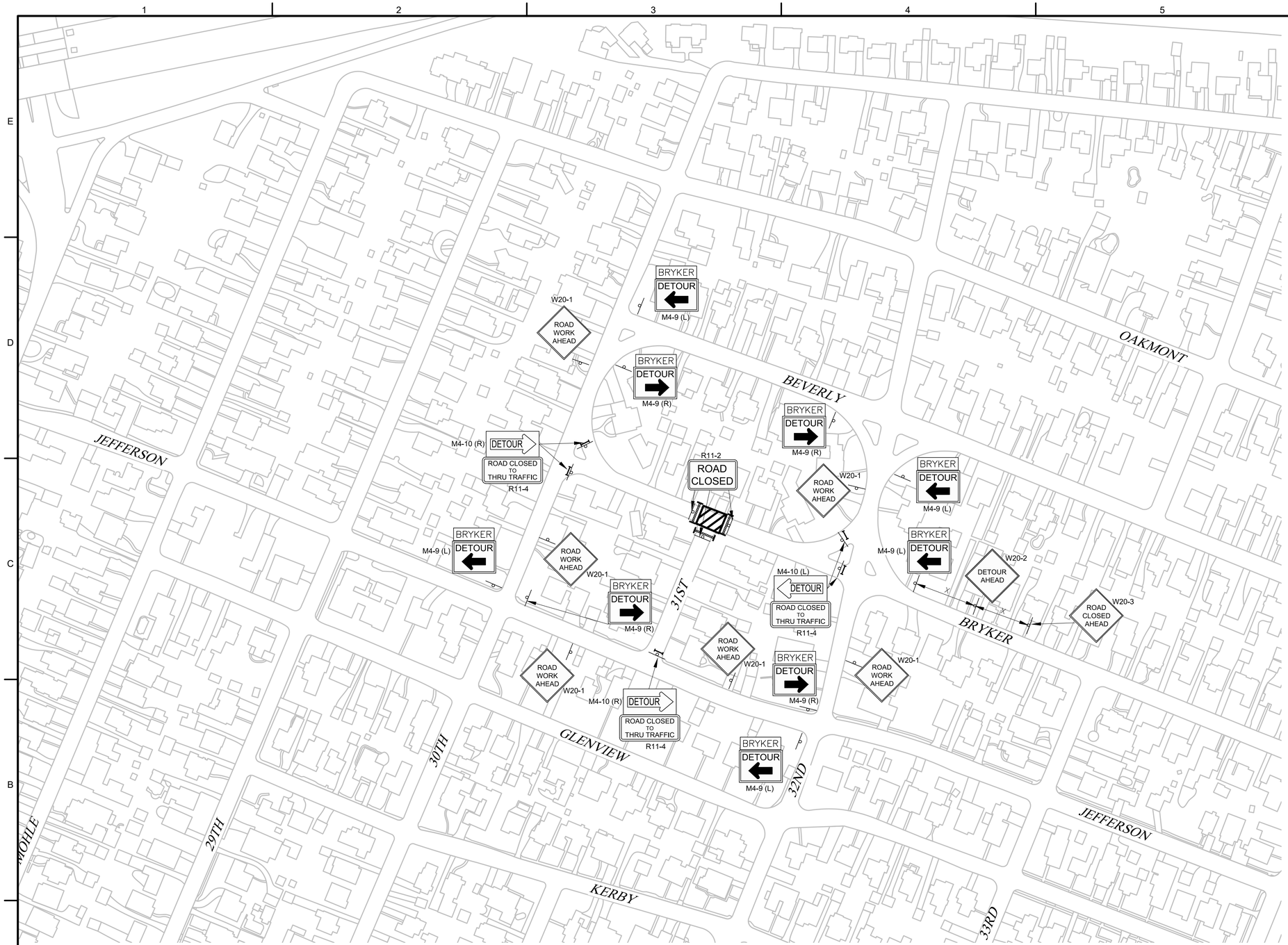
SHEET TITLE

TRAFFIC CONTROL

BRYKER FROM 30TH TO 31ST DETOUR

SCALE: 1" = 100'

SHEET TC-03
28 OF 55



100 50 0 100

SCALE IN FEET

LEGEND

- SIGN
- TYPE III BARRICADE
- WORK ZONE
- CHANNELIZING DEVICES

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Michael Meriwether
08-21-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN FOUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: AUGUST 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: M. Meriwether
DRAWN BY: J. Willig
CHECKED BY: M. Meriwether

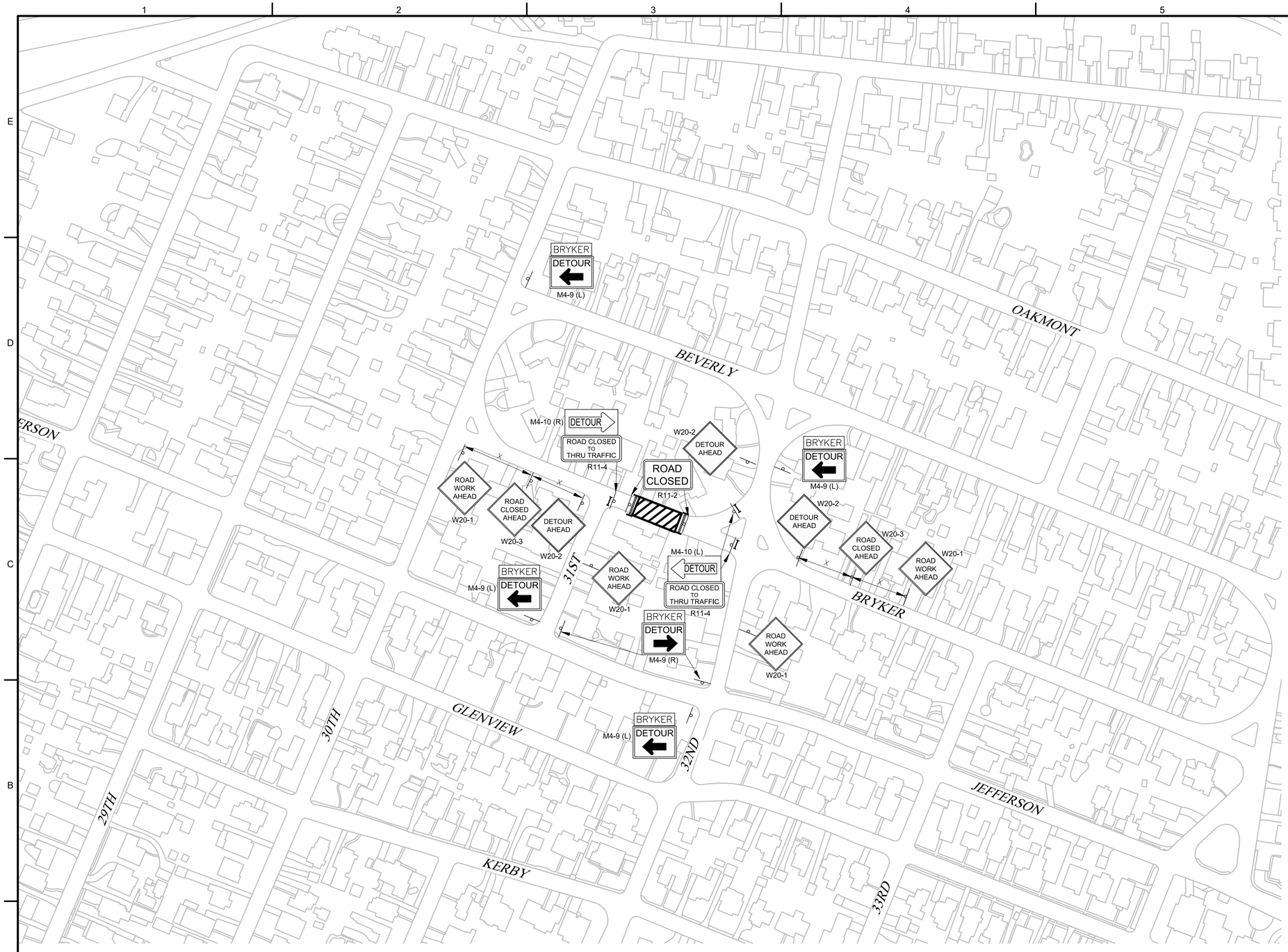
SHEET TITLE

TRAFFIC CONTROL

31ST - BRYKER
INTERSECTION
DETOUR

SCALE: 1" = 100'

SHEET TC-04
29 OF 55



100 50 0 100

SCALE IN FEET

LEGEND

- SIGN
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- WORK ZONE
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08-21-2020

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AUSTIN WATER UTILITY

CITY OF AUSTIN FOUNDED 1839

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WATER AND WASTEWATER
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NO.	DATE	REVISION	BY

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DRAWN BY: J. Willig
CHECKED BY: M. Meriwether

SHEET TITLE

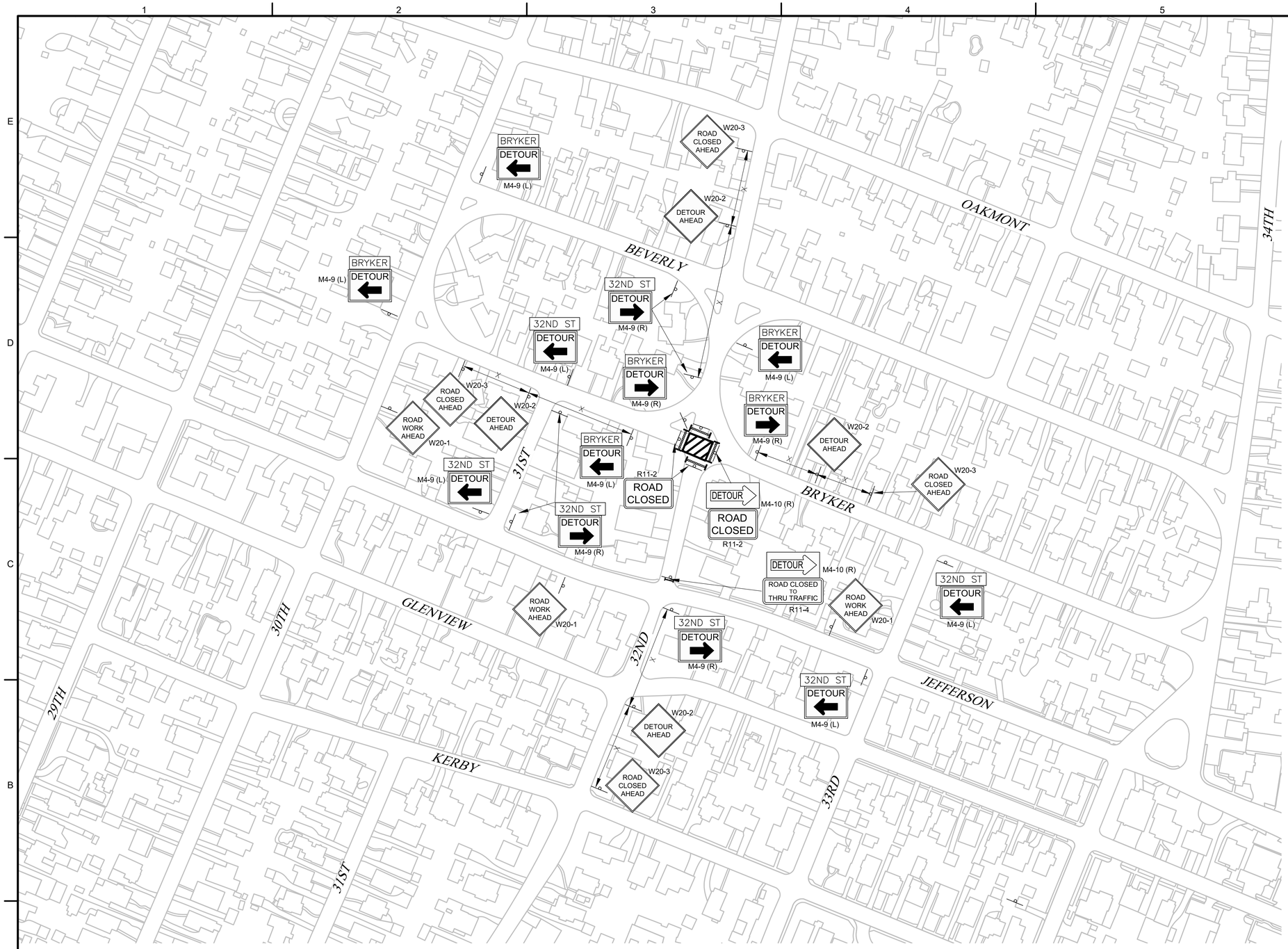
TRAFFIC CONTROL

BRYKER FROM 31ST TO 32ND DETOUR

SCALE: 1" = 100'

SHEET TC-05

30 OF 55



N

100 50 0 100

SCALE IN FEET

LEGEND

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- TYPE III BARRICADE
- WORK ZONE
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08-21-2020

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CITY OF AUSTIN FOUNDED 1839

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WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: AUGUST 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: M. Meriwether
DRAWN BY: J. Willig
CHECKED BY: M. Meriwether

SHEET TITLE

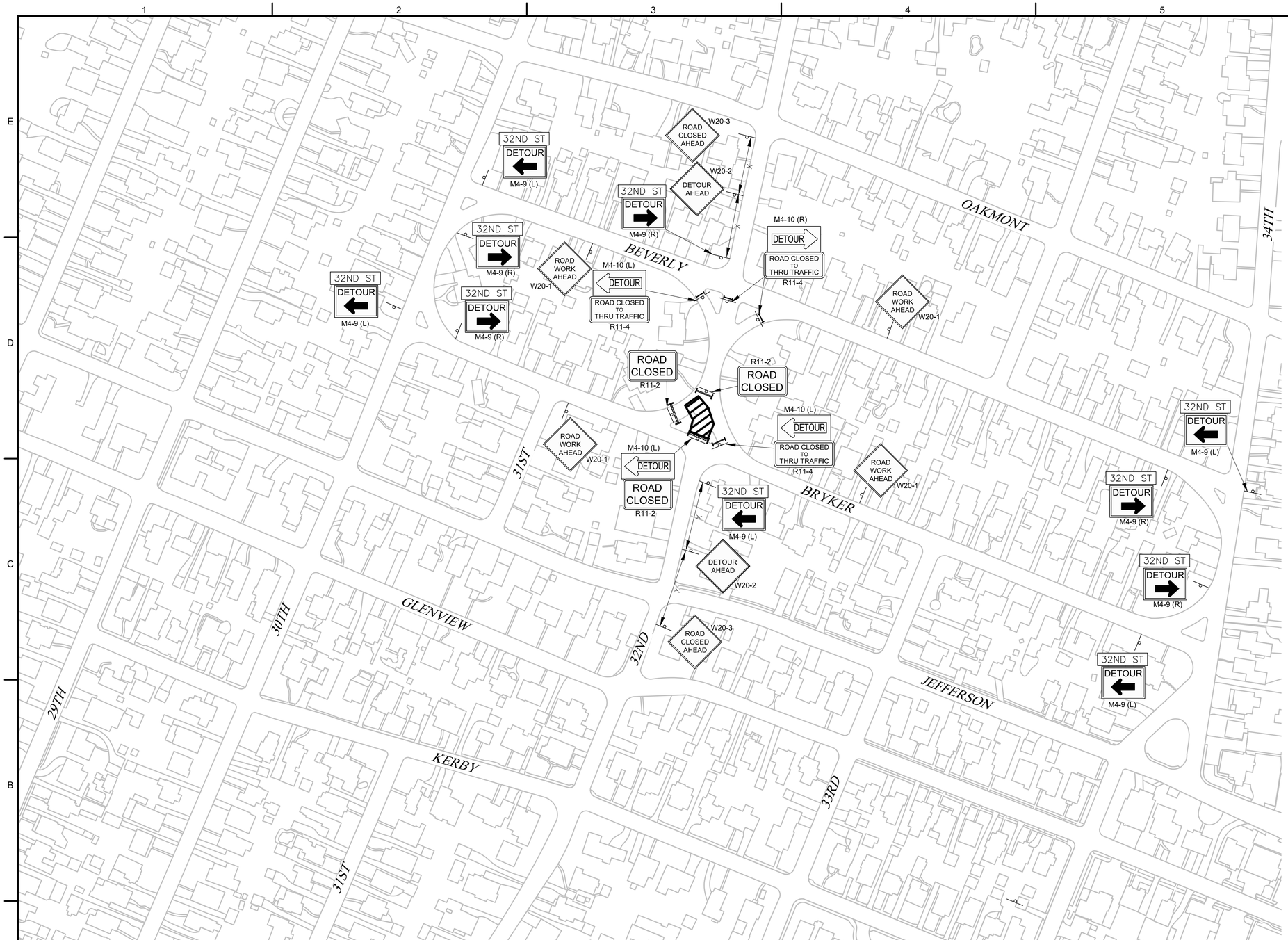
TRAFFIC CONTROL

32ND - BRYKER INTERSECTION DETOUR

SCALE: 1" = 100'

SHEET TC-06

31 OF 55



SCALE IN FEET

100 50 0 100

LEGEND

- SIGN
- TYPE III BARRICADE
- WORK ZONE
- CHANNELIZING DEVICES

NOTES:

1. ALL TRAFFIC CONTROL DEVICES TO MOVE WITH WORK AREA.
2. SPEED LIMITS FOR ALL CITY STREETS ARE SHOWN ON SHEET TC-01.
3. ROLLING CLOSURE OF WORK AREA LIMITED TO 300 L.F. AT A TIME WITH EXCAVATION LIMITED TO 100 L.F.
4. NOTIFY RESIDENTS 48 HOURS PRIOR TO CLOSURE.
5. INSTALL "NO PARKING" SIGNS ON BOTH SIDES OF STREET 48 HOURS PRIOR TO CLOSURE.
6. PUBLIC NOTIFICATION MUST OCCUR PRIOR TO CONSTRUCTION AND ACCOMMODATIONS FOR AFFECTED DRIVEWAYS MUST BE MADE. ALL EXCAVATIONS BLOCKING DRIVEWAY ACCESS MUST BE BACKFILLED/PLATED AFTER WORK HOURS.
7. CONTRACTOR SHALL MAINTAIN A 5' MINIMUM WIDTH SHARED USE PATH THROUGH THE WORK AREA. PATH SHALL BE SEPARATED FROM WORK AREA WITH PORTABLE SAFETY FENCING PER STANDARD DETAIL 804S-4 (1 OF 9).

ARCADIS
FIRM REGISTRATION NUMBER: F-533

CAS CONSULTING & SERVICES, INC.
CIVIL ENGINEERING | PROGRAM MANAGEMENT | CONSTRUCTION MANAGEMENT
7908 Cameron Road | Austin, TX 78754 | REG. NO. F-003572
Main: 512.836.2388 | Fax: 512.836.4515

STATE OF TEXAS
MICHAEL C. MERIWETHER
58563
LICENSED
PROFESSIONAL ENGINEER
08-21-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

COPYRIGHT:	ARCADIS U.S., INC.
DATE:	AUGUST 2020
PROJECT NO.:	02908105.0000
DESIGNED BY:	M. Meriwether
DRAWN BY:	J. Willig
CHECKED BY:	M. Meriwether

SHEET TITLE

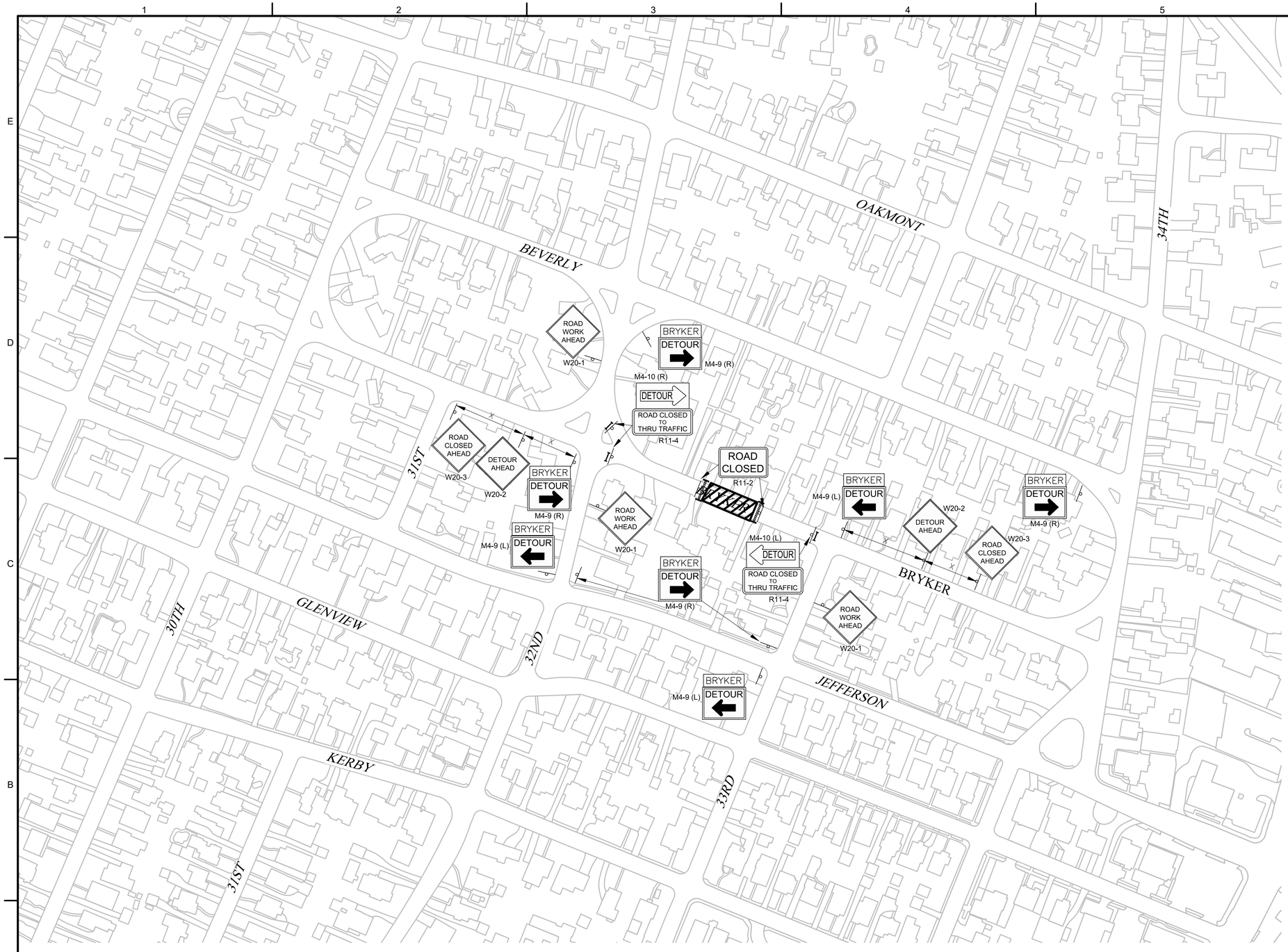
TRAFFIC CONTROL

32ND FROM BRYKER TO BEVERLY

SCALE: 1" = 100'

SHEET TC-07

32 OF 55



100 50 0 100
SCALE IN FEET

LEGEND

- SIGN
- TYPE III BARRICADE
- WORK ZONE
- CHANNELIZING DEVICES

NOTES:

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STATE OF TEXAS
MICHAEL C. MERIWETHER
58563
LICENSED
PROFESSIONAL ENGINEER
08-21-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN FOUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: AUGUST 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: M. Meriwether
DRAWN BY: J. Willig
CHECKED BY: M. Meriwether

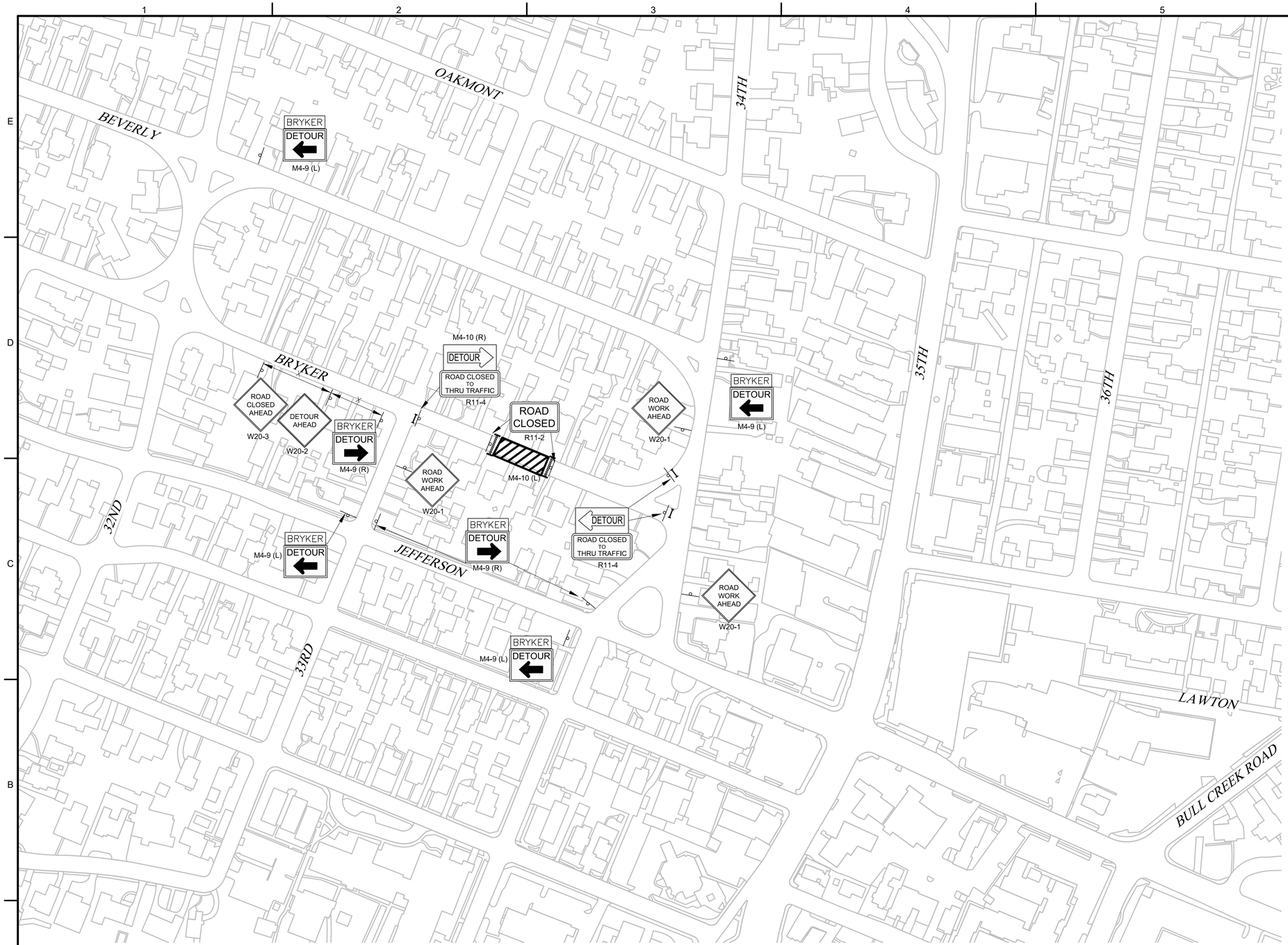
SHEET TITLE

TRAFFIC CONTROL

BRYKER FROM 32ND TO 33RD DETOUR

SCALE: 1" = 100'

SHEET TC-08
33 OF 55



SCALE IN FEET

100 50 0 100

LEGEND

- SIGN
- TYPE III BARRICADE
- WORK ZONE
- CHANNELIZING DEVICES

NOTES:

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MICHAEL C. MERIWETHER
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LICENSED
PROFESSIONAL ENGINEER
08-21-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD WATER AND WASTEWATER REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: AUGUST 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: M. Meriwether
DRAWN BY: J. Willig
CHECKED BY: M. Meriwether

SHEET TITLE

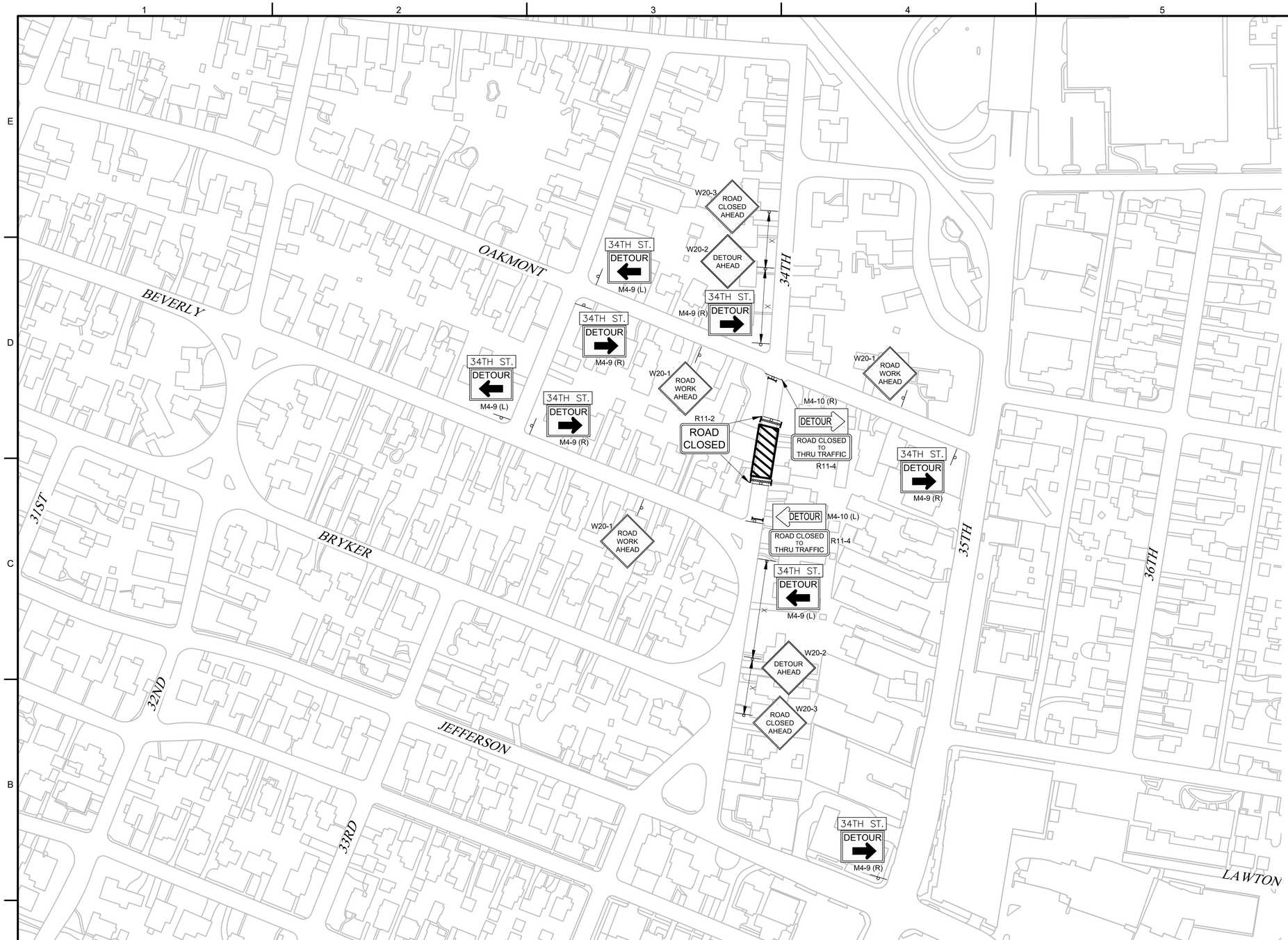
TRAFFIC CONTROL

BRYKER FROM 33RD TO 34TH DETOUR

SCALE: 1" = 100'

SHEET TC-09

34 OF 55



100 50 0 100

SCALE IN FEET

LEGEND

- SIGN
- TYPE III BARRICADE
- WORK ZONE
- CHANNELIZING DEVICES

NOTES:

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Michael Meriwether
08-21-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: AUGUST 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: M. Meriwether
DRAWN BY: J. Willig
CHECKED BY: M. Meriwether

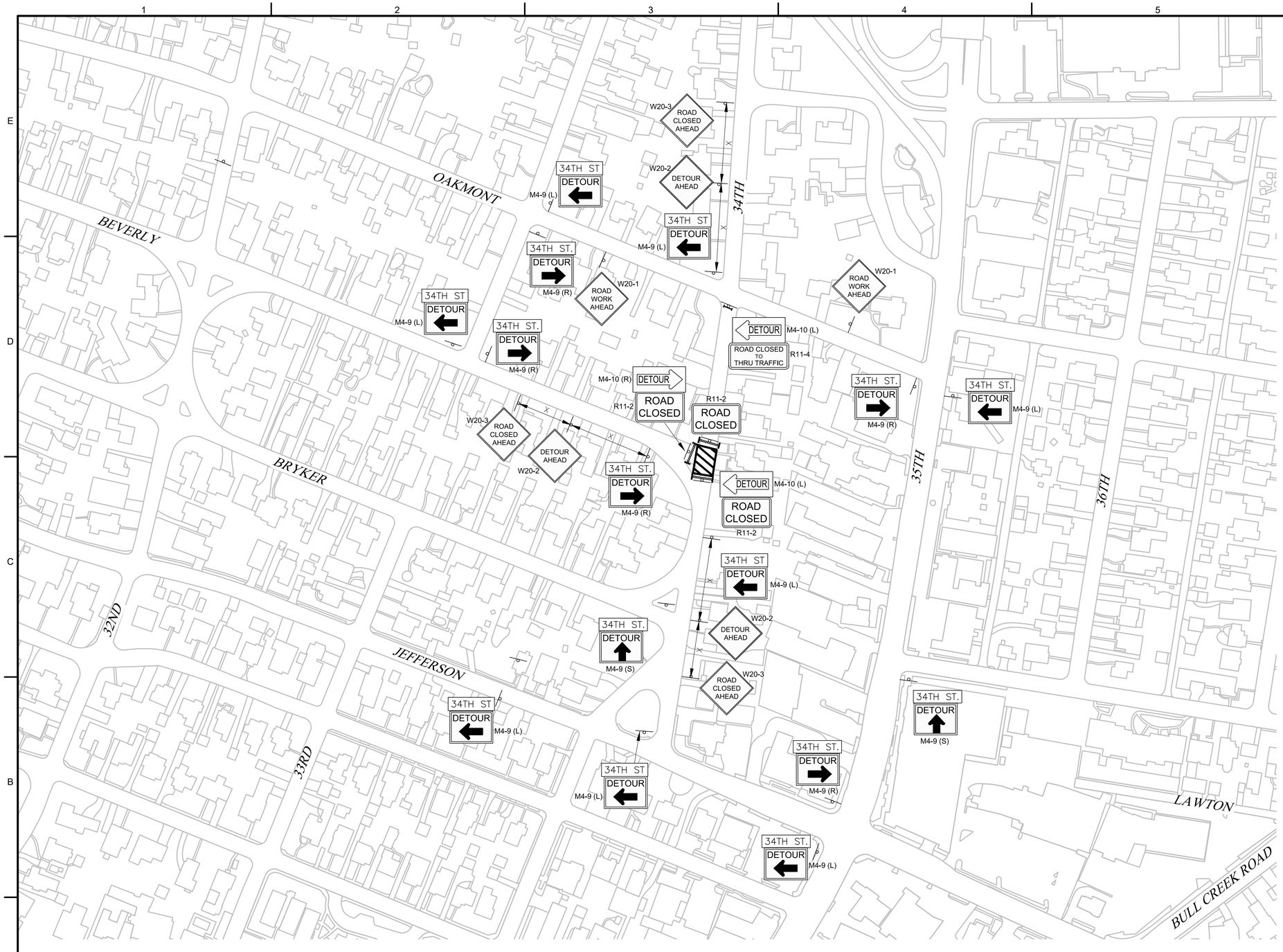
SHEET TITLE

TRAFFIC CONTROL

34TH FROM OAKMONT TO BEVERLY DETOUR

SCALE: 1" = 100'

SHEET TC-10
35 OF 55



SCALE IN FEET
100 50 0 100

LEGEND

- SIGN
- TYPE III BARRICADE
- WORK ZONE
- CHANNELIZING DEVICES

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Michael Meriwether
08-21-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN FOUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: AUGUST 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: M. Meriwether
DRAWN BY: J. Willig
CHECKED BY: M. Meriwether

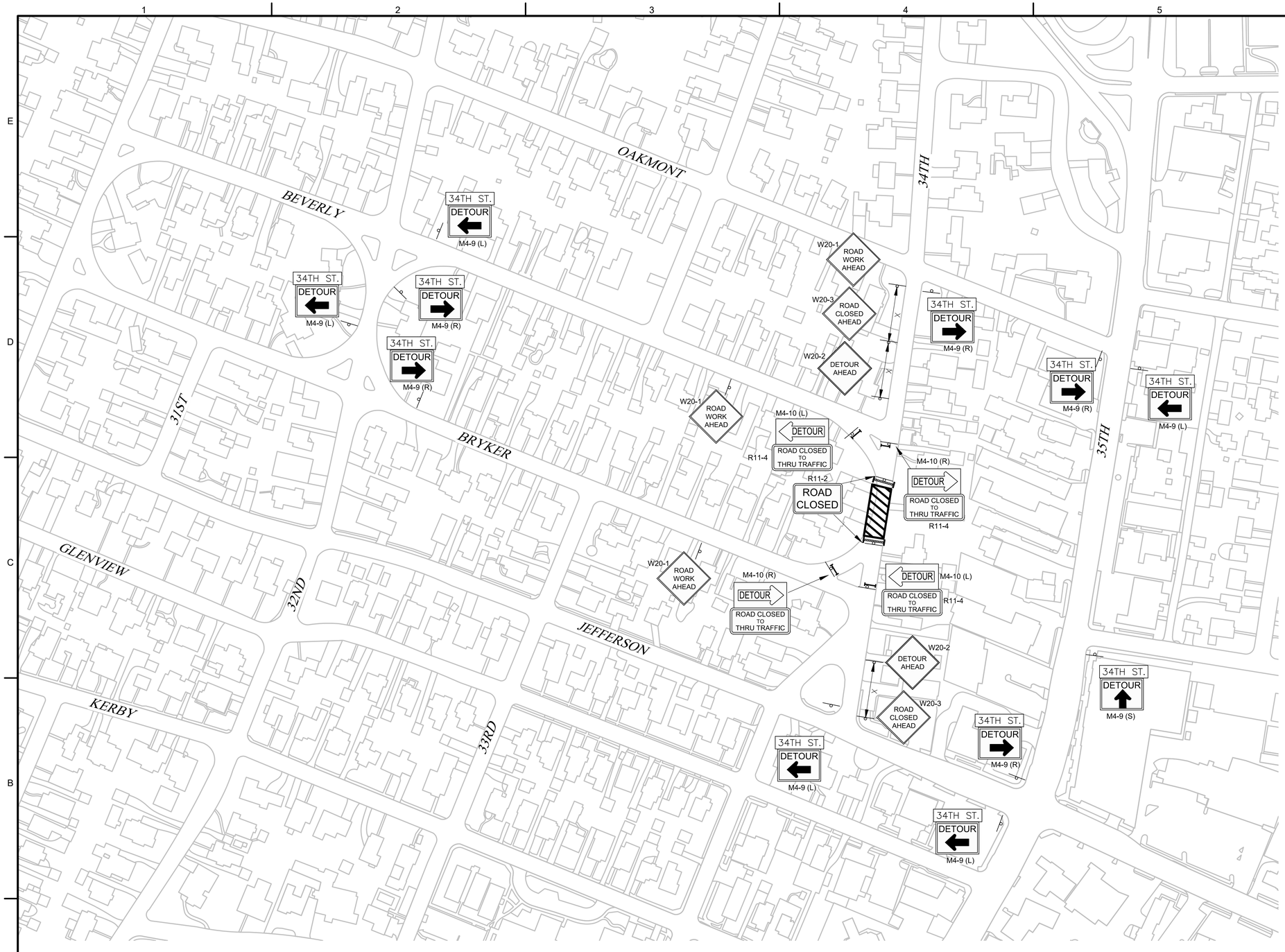
SHEET TITLE

TRAFFIC CONTROL

BEVERLY - 34TH
INTERSECTION
DETOUR

SCALE: 1" = 100'

SHEET TC-11
36 OF 55



SCALE IN FEET

100 50 0 100

LEGEND

- SIGN
- TYPE III BARRICADE
- WORK ZONE
- CHANNELIZING DEVICES

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AUSTIN WATER UTILITY

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BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: AUGUST 2020
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DESIGNED BY: M. Meriwether
DRAWN BY: J. Willig
CHECKED BY: M. Meriwether

SHEET TITLE

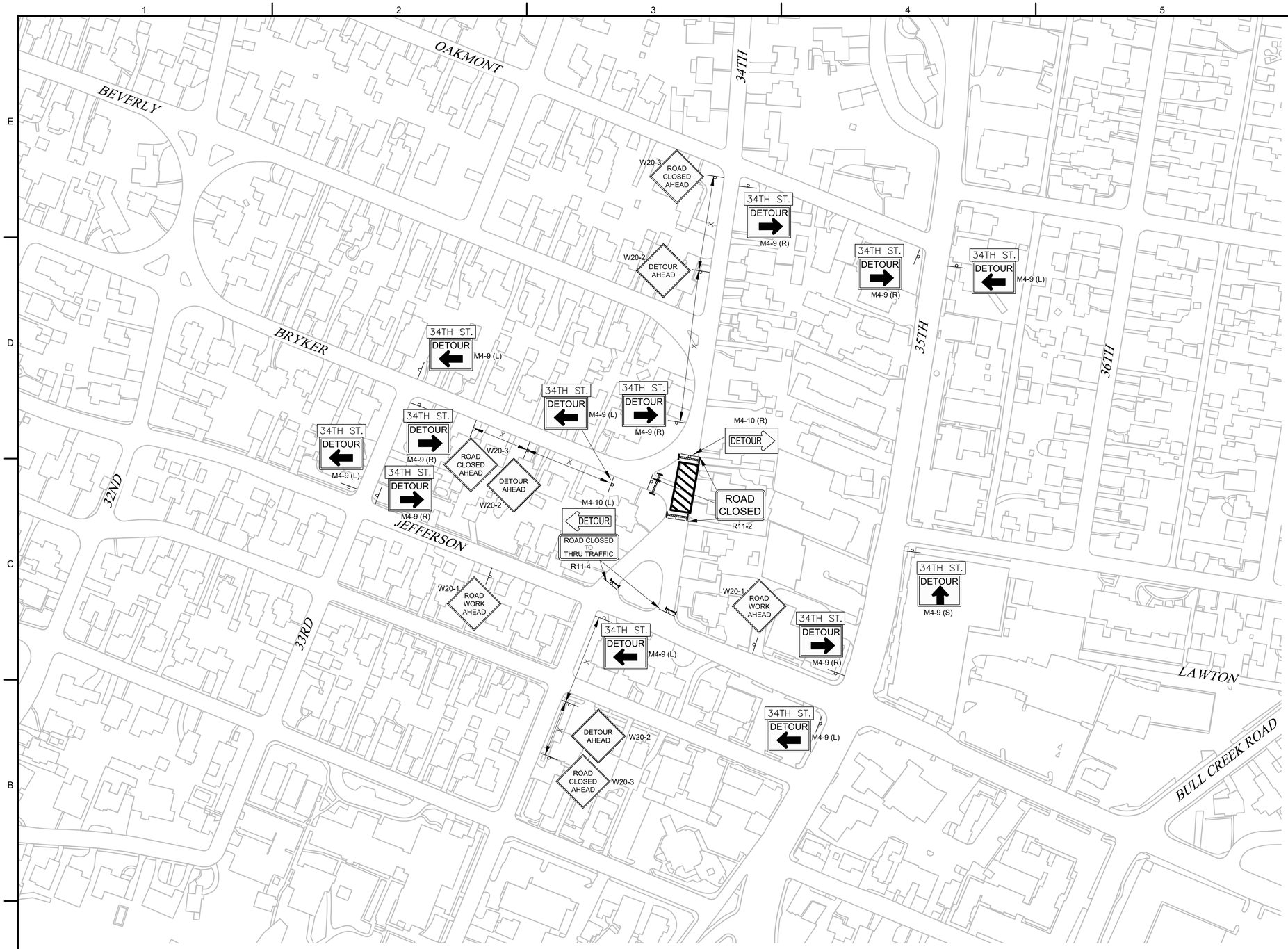
TRAFFIC CONTROL

34TH FROM BEVERLY TO BRYKER DETOUR

SCALE: 1" = 100'

SHEET TC-12

37 OF 55



SCALE IN FEET

100 50 0 100

LEGEND

- SIGN
- TYPE III BARRICADE
- WORK ZONE
- CHANNELIZING DEVICES

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FIRM REGISTRATION NUMBER: F-533

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STATE OF TEXAS
MICHAEL C. MERIWETHER
58563
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Michael Meriwether
08-21-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN FOUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: AUGUST 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: M. Meriwether
DRAWN BY: J. Willig
CHECKED BY: M. Meriwether

SHEET TITLE

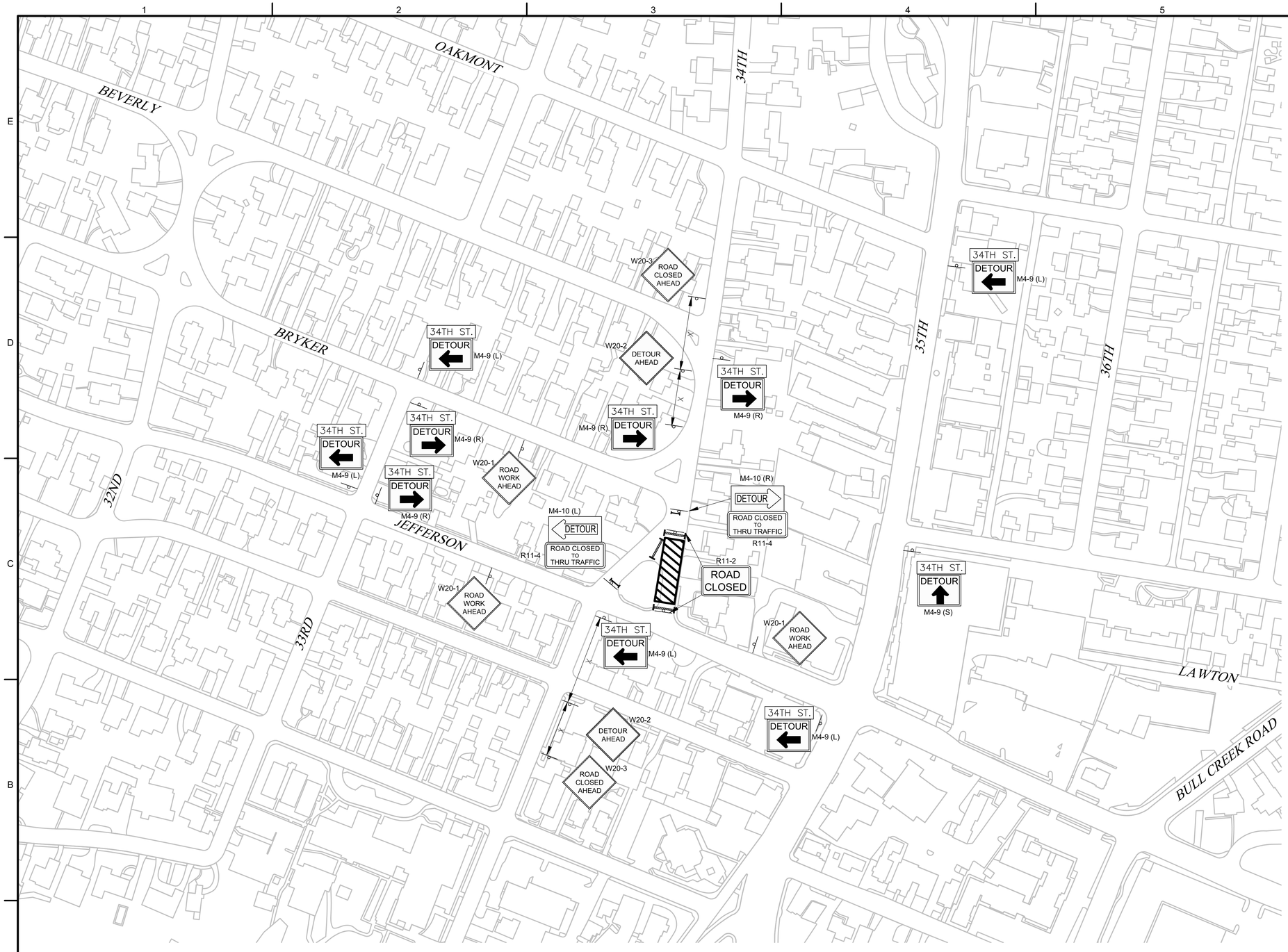
TRAFFIC CONTROL

BRYKER - 34TH INTERSECTION DETOUR

SCALE: 1" = 100'

SHEET TC-13

38 OF 55



SCALE IN FEET

100 50 0 100

LEGEND

- SIGN
- TYPE III BARRICADE
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Michael Meriwether
08-21-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: AUGUST 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: M. Meriwether
DRAWN BY: J. Willig
CHECKED BY: M. Meriwether

SHEET TITLE

TRAFFIC CONTROL

34TH FROM BRYKER TO JEFFERSON DETOUR

SCALE: 1" = 100'

SHEET TC-14

39 OF 55

100 50 0 100

SCALE IN FEET

LEGEND

- SIGN
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- WORK ZONE
- CHANNELIZING DEVICES

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08-21-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: AUGUST 2020
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DESIGNED BY: M. Meriwether
DRAWN BY: J. Willig
CHECKED BY: M. Meriwether

SHEET TITLE

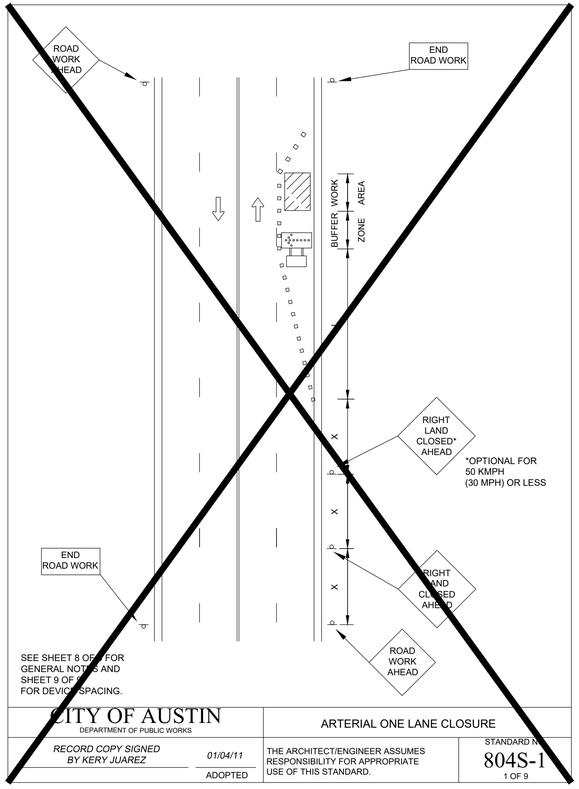
TRAFFIC CONTROL

JEFFERSON - 34TH INTERSECTION DETOUR

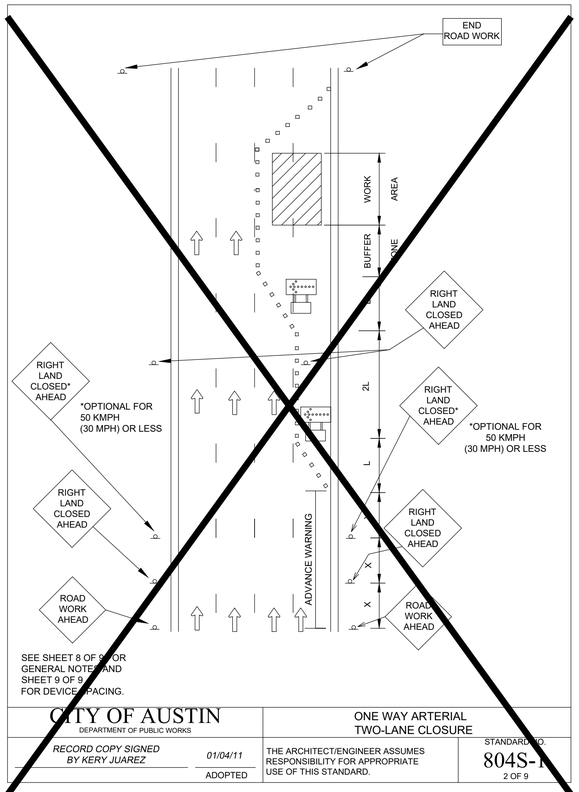
SCALE: 1" = 100'

SHEET TC-15

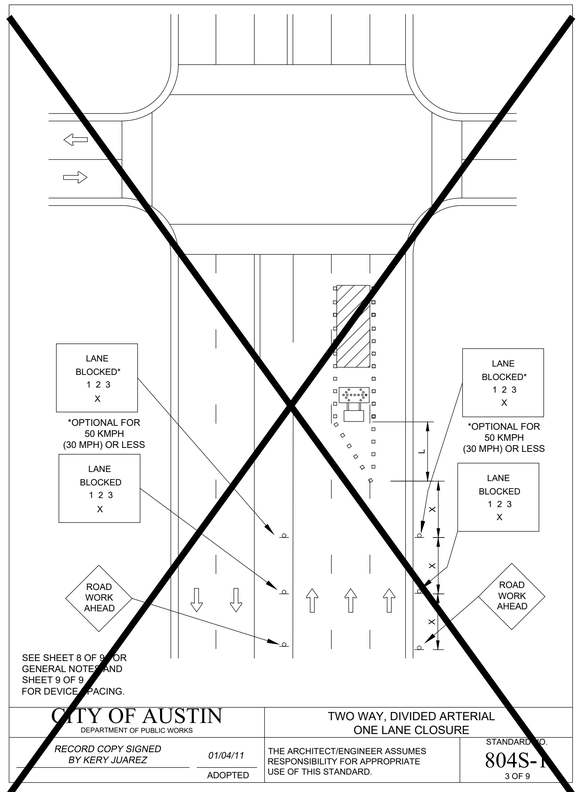
40 OF 55



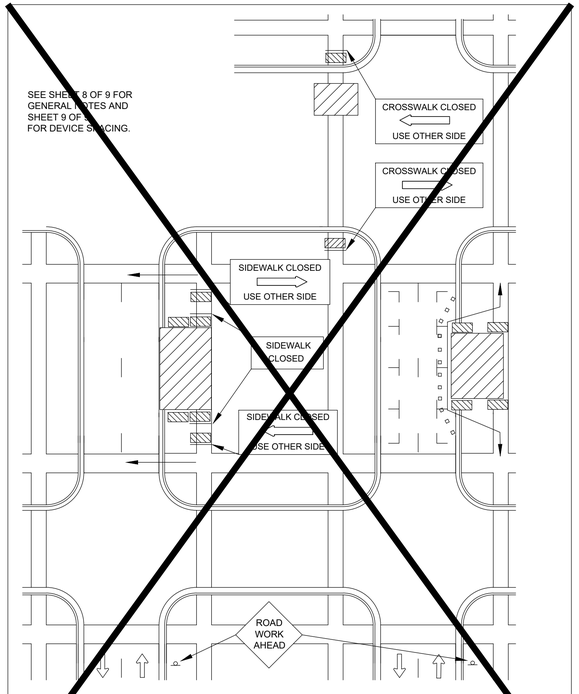
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	ARTERIAL ONE LANE CLOSURE	
RECORD COPY SIGNED BY KERY JUAREZ — *01/04/11* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 1 OF 9



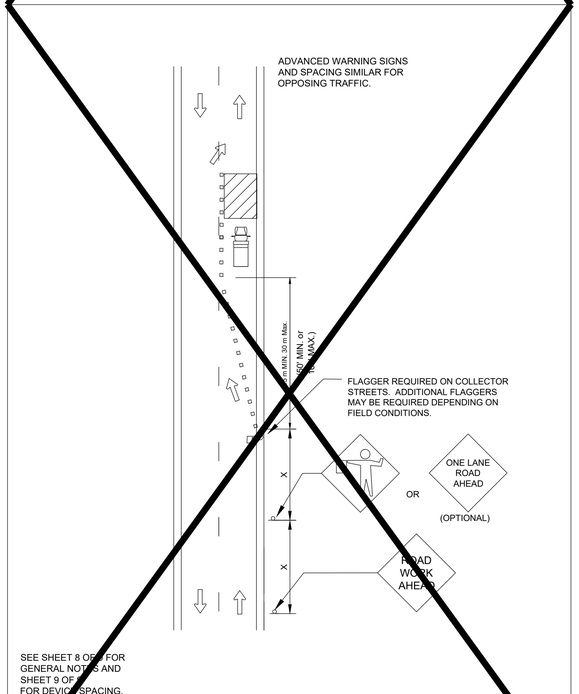
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	ONE WAY ARTERIAL TWO-LANE CLOSURE	
RECORD COPY SIGNED BY KERY JUAREZ — *01/04/11* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 2 OF 9



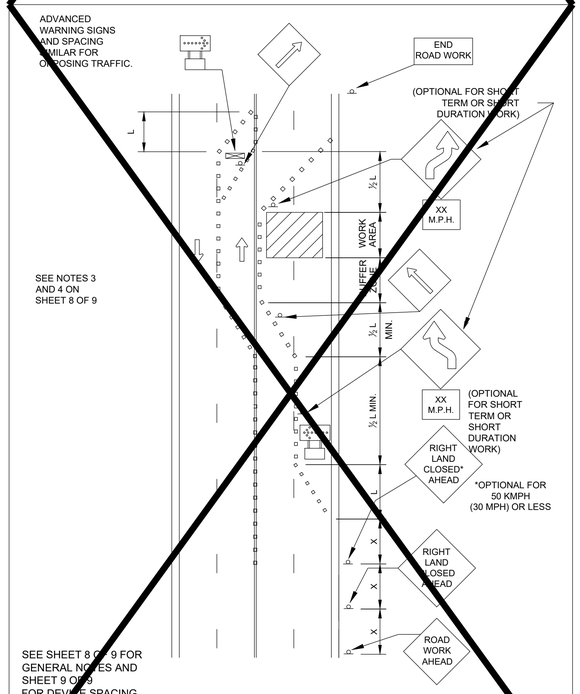
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TWO WAY, DIVIDED ARTERIAL ONE LANE CLOSURE	
RECORD COPY SIGNED BY KERY JUAREZ — *01/04/11* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 3 OF 9



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	BYPASS WALKWAY, SIDEWALK AND CROSSWALK CLOSURES	
RECORD COPY SIGNED BY KERY JUAREZ — *01/04/11* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 4 OF 9



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	COLLECTOR/RESIDENTIAL LANE CLOSURES	
RECORD COPY SIGNED BY KERY JUAREZ — *01/04/11* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 5 OF 9



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPICAL TRAFFIC CONTROL PLAN FOR SHIFTING TRAFFIC	
RECORD COPY SIGNED BY KERY JUAREZ — *01/04/11* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-1 6 OF 9

ARCADIS
FIRM REGISTRATION NUMBER: F-533

CAS CONSULTING & SERVICES, INC.
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STATE OF TEXAS
MICHAEL C. MERIWETHER
58563
LICENSED PROFESSIONAL ENGINEER
Michael Meriwether
12–01–2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

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DATE:	AUGUST 2020
PROJECT NO.:	02908105.0000
DESIGNED BY:	M. Meriwether
DRAWN BY:	J. Willig
CHECKED BY:	M. Meriwether

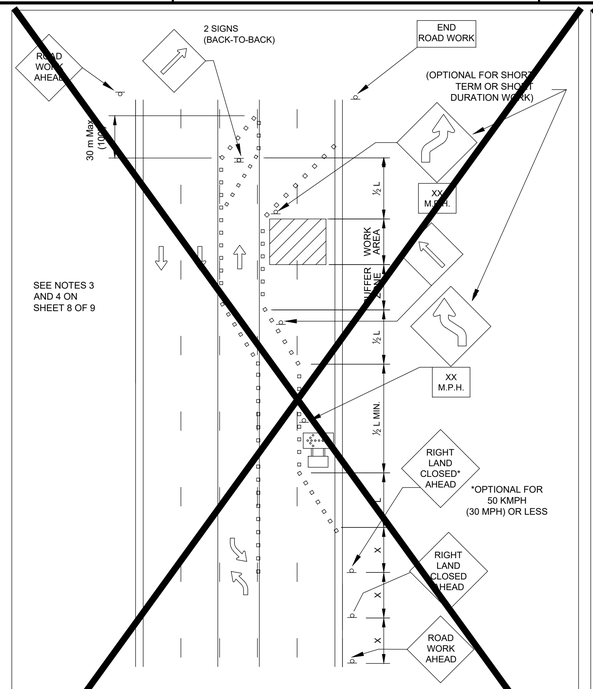
SHEET TITLE

TRAFFIC CONTROL

TRAFFIC CONTROL DETAILS

SCALE: AS SHOWN

SHEET TC-16
41 OF 55



CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS

TYPICAL TRAFFIC CONTROL PLAN FOR SHIFTING TRAFFIC

RECORD COPY SIGNED BY KERY JUAREZ — 01/04/11 — ADOPTED

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 804S-1
7 OF 9

1. ALL SETUPS SHALL BE IN ACCORDANCE WITH THE CURRENT ADDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL.
2. TO DETERMINE APPROPRIATE DEVICES AND SIGN SIZES TO BE USED, REFER TO STANDARD 804S-5, SHEETS 5, 6 AND 7 OF 11.
3. FOR INTERMEDIATE-TERM SITUATIONS, WHEN IT IS NOT FEASIBLE TO REMOVE AND RESTORE PAVEMENT MARKINGS, THE CHANNELIZATION MUST BE MADE DOMINANT BY USING A VERY CLOSE DEVICE SPACING. THIS IS ESPECIALLY IMPORTANT IN LOCATIONS OF CONFLICTING INFORMATION, SUCH AS WHERE TRAFFIC IS DIRECTED OVER A DOUBLE YELLOW CENTERLINE. IN SUCH LOCATIONS, A MAXIMUM CHANNELIZING DEVICE SPACING OF 3 m (10') IS REQUIRED.
4. FOR LONG TERM STATIONARY WORK, ALL CONFLICTING PAVEMENT MARKINGS MUST BE REMOVED AND CENTERLINE STRIPING PROVIDED WHERE TWO WAY TRAFFIC IS IN ADJACENT LANES.
5. FOR TEMPORARY PAVEMENT MARKING REQUIREMENTS SEE STANDARD 804S-3.
6. FOR ONE-WAY AND MULTI-LANE ROADWAYS THE "LANE BLOCKED" SIGN MAY BE USED IN LIEU OF THE "LANE CLOSED AHEAD" SIGN. THE NUMBER OF DIGITS ON THE SIGN SHALL NOT BE GREATER THAN THE NUMBER OF LANES PRESENT ON THE ROADWAY. THE "X" SHALL BE PLACED UNDER THE NUMBER OF LANE(S) BLOCKED.
7. FOR FLAGGING OPERATION REQUIREMENTS SEE STANDARD 804S-2.
8. CONTRACTOR SHALL PROVIDE SIDEWALK CLOSURES, CROSSWALK CLOSURES OR WALKWAY BYPASS WHEREVER PEDESTRIAN MOVEMENTS ARE AFFECTED BY CONSTRUCTION ACTIVITIES. ALL SIDEWALKS AND CROSSWALKS SHALL BE ACCESSIBLE WHEN CONTRACTOR IS NOT WORKING UNLESS APPROVED BY THE TRANSPORTATION DIVISION.
9. FOR EXCAVATION PROTECTION AND SAFETY FENCE REQUIREMENTS SEE STANDARD 804S-4.
10. THE USE OF ARROW DISPLAYS ARE REQUIRED ON ALL LANE CLOSURES. THE CONTRACTOR SHALL PROVIDE ONE (1) STAND-BY UNIT IN GOOD WORKING CONDITION AT THE JOB SITE, READY FOR USE IF THE OPERATION REQUIRES 24 HOUR A DAY LANE CLOSURE SET-UPS.

CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS

GENERAL NOTES

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THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 804S-1
8 OF 9

Typical Transition Lengths and
Suggested Maximum Spacing of Devices

Speed KMPH	Posted Speed MPH	Formula	Minimum Desirable Taper Lengths (L) Meters (Feet) 3.0(10) Offset Meters (feet)	3.3(11) Offset Meters (feet)	3.6(12) Offset Meters (feet)	Suggested Max. Device Spacing On a taper Meters (feet)	On a tangent Meters (feet)	Suggested Sign Spacing Meters (Feet) "X" Dimension
50	30	L=WS²/60	45 (150)	50 (165)	55 (180)	9 (30)	15-20 (60-75)	40 (120)
55	35		65 (205)	70 (225)	75 (245)	10 (35)	25-25 (70-90)	50 (160)
65	40		80 (265)	90 (295)	100 (320)	12 (40)	25-30 (80-100)	75 (240)
70	45		135 (450)	150 (495)	165 (540)	13 (45)	25-30 (90-110)	100 (320)
80	50		150 (500)	165 (550)	180 (600)	15 (50)	30-35 (100-125)	120 (400)
90	55	L=WS	165 (550)	185 (605)	200 (660)	16 (55)	35-40 (110-140)	150 (500)
95	60		180 (600)	200 (660)	220 (720)	18 (60)	40-45 (120-150)	180 (600)
105	65		195 (650)	215 (710)	235 (770)	19 (65)	40-50 (130-165)	210 (700)
115	70		215 (700)	235 (770)	255 (840)	21 (70)	45-55 (140-175)	240 (800)

LEGEND
- Channelizing devices
- Trailer mounted flashing arrow board
- Flagger

CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS

DEVICE SPACING

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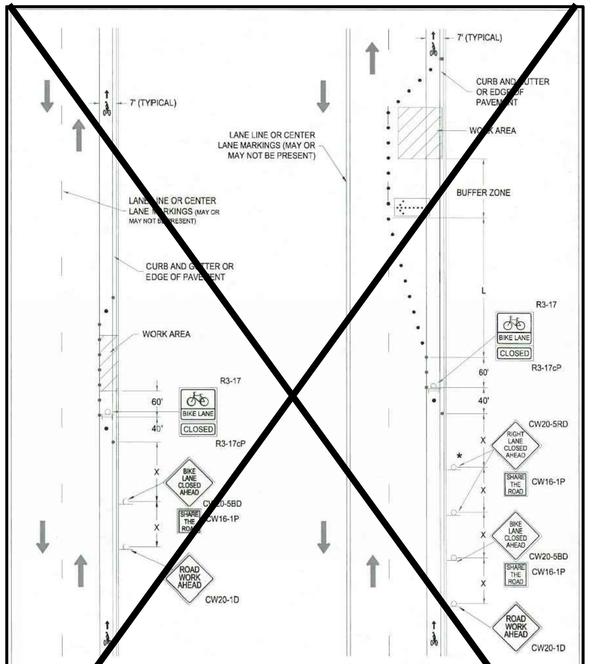
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 804S-1
9 OF 9



CITY OF AUSTIN
AUSTIN TRANSPORTATION DEPARTMENT, ROW MANAGEMENT DIVISION

BIKE LANE CLOSURE AND BIKE LANE CLOSURE WITH ADJACENT TRAVEL LANE; 35 MPH OR LESS

RECORD COPY SIGNED BY LEE AUSTIN — 6/22/2016 — ADOPTED

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 804S-1
10 OF 13

Notes for Standard 804S-1, 10 of 13

Bike Lane Closure and Bike Lane Closure with Adjacent Traffic Lane Closure; 35 mph or Less

Definition:

Bicycle Lane: A portion of a roadway that has been designated by signs and pavement markings for preferential or exclusive use by bicycles.

Standard:

1. This standard detail shall apply on roadways with a posted speed of 35mph or less.

Guidance:

2. Bicycle lane transitions should be no less than 40 ft.

Standard:

3. A bike lane closure shall be used anytime work activity encroaches into a portion of or closes a bicycle lane on a roadway with a posted speed limit of 35 mph or less.

4. The adjacent traffic lane closure shall be used only on roadways where traffic flow is in multiple traffic lanes in the same direction.

5. Advance warning signs for a bicycle lane closure shall consist of a Road Work/Utility Work Ahead sign a Bike Lane Closed sign with a Share the Road (CW16-1P) sign. Additional signs shall be placed when the adjacent traffic lane is closed.

6. Vertical mounting height and lateral placement shall be as specified in 804S-5, 6 & 7 of 13.

7. Warning sign size shall be as shown for conventional roads in 804S-5, 6 & 7 of 13.

8. A type-I barricade shall be set at the end of the bike lane transition area to physically close the bike lane to prevent bicyclist's entry into the work zone.

9. A Bike Lane (R3-17) sign and a Closed (R3-17cP) plate shall be mounted directly behind the type-I Barricade in the bike lane.

Guidance:

10. Where work activity is expected to block a traffic lane of a roadway with a bicycle lane, a Bike Lane Closure should be set prior to the traffic lane closure.

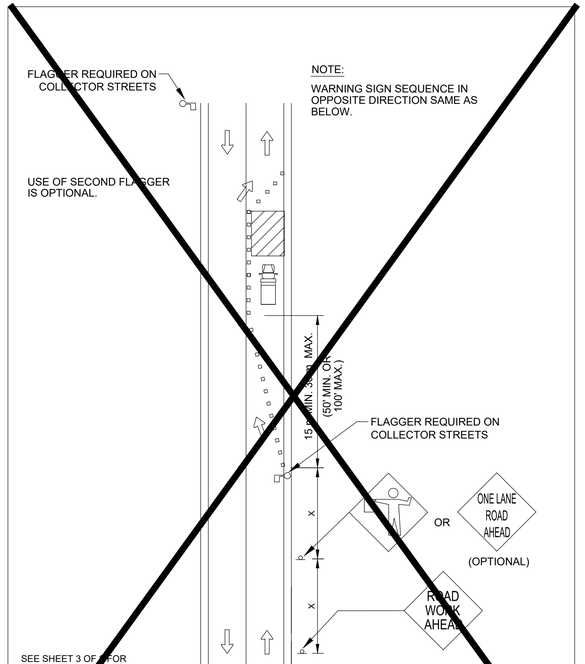
CITY OF AUSTIN
AUSTIN TRANSPORTATION DEPARTMENT, ROW MANAGEMENT DIVISION

BIKE LANE CLOSURE 35 MPH OR LESS

Record Copy Signed by Lee Austin — 6/22/2016 — ADOPTED

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD

STANDARD NO. 804S-1
of 13



CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS

COLLECTOR/RESIDENTIAL STREET FLAGGING OPERATIONS

RECORD COPY SIGNED BY BILL GARDNER — 03/13/06 — ADOPTED

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 804S-2
1 OF 8

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STATE OF TEXAS
MICHAEL C. MERIWETHER
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Michael Meriwether
12-01-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

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DATE: AUGUST 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: M. Meriwether
DRAWN BY: J. Willig
CHECKED BY: M. Meriwether

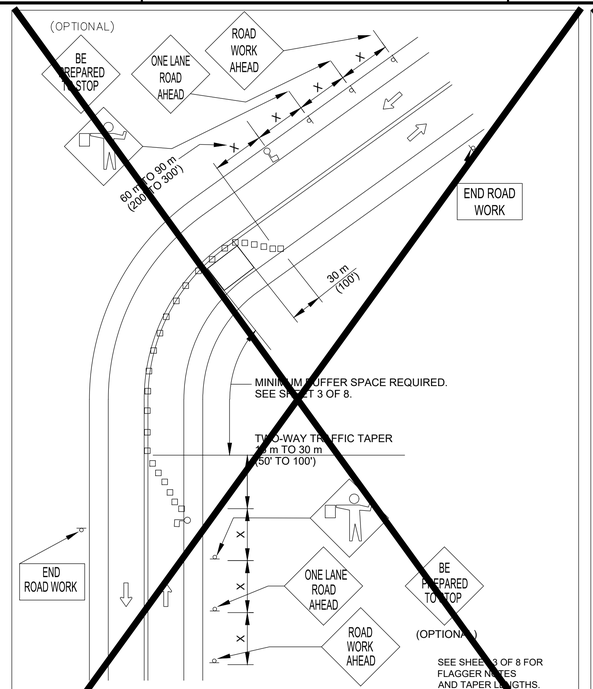
SHEET TITLE

TRAFFIC CONTROL

TRAFFIC CONTROL DETAILS

SCALE: AS SHOWN

SHEET TC-17
42 OF 55



CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS

FLAGGER SETUP FOR 2 LANE ROADWAY

RECORD COPY SIGNED BY BILL GARDNER — 03/13/06 — ADOPTED

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 804S-2
2 OF 8

1. FOR DAYTIME WORK, THE FLAGGER SHALL WEAR AN APPROVED BRIGHTLY COLORED VEST. FOR NIGHTTIME WORK, THE VEST SHALL BE RETROFLECTIVE. THE RETRO-REFLECTIVE MATERIAL SHALL BE ORANGE, YELLOW, WHITE, SILVER, STRONG YELLOW-GREEN OR A FLOURESCENT VERSION OF THESE COLORS AND SHALL BE VISIBLE AT A MINIMUM DISTANCE OF 305 m (1,000').
2. FOR LOW VOLUME APPLICATIONS, A SINGLE FLAGGER MAY BE ADEQUATE. WHERE ONE FLAGGER CAN BE USED, SUCH AS FOR SHORT WORK AREAS ON STRAIGHT ROADWAYS, THE FLAGGER MUST BE VISIBLE TO APPROACHING TRAFFIC FROM BOTH DIRECTIONS.
3. FLAGGERS SHALL USE ONLY STOP/SLOW PADDLE TO DIRECT TRAFFIC UNLESS WORKING IN A SIGNALIZED INTERSECTION WHERE DRIVERS MAY BE CONFUSED BY THE SIGN PADDLE. HAND SIGNAL MAY BE USED IN THESE SITUATIONS.
4. FLAGGERS SHALL ENSURE THAT ALL REQUIRED SIGNING IS IN PLACE PRIOR TO BEGINNING FLAGGING OPERATIONS.
5. FLAGGERS SHALL NOT PERFORM WORK THAT IS NOT RELATED TO FLAGGING WHILE ON DUTY.
6. FLAGGERS MAY CARRY AIR HORNS OR WHISTLES TO WARN WORKERS OF AN EMERGENCY CONDITION.
7. FLAGGERS SHALL BE REQUIRED TO USE TWO-WAY RADIOS WHEN OUT OF CLEAR VIEW OF EACH OTHER.
8. FLOODLIGHTS SHOULD BE PROVIDED TO MARK FLAGGER STATIONS AT NIGHT AS NEEDED.

TAPER LENGTHS

SPEED (kmph)	SPEED (mph)	LENGTH (meters)	LENGTH (feet)
30	20	11	35
40	25	17	55
50	30	26	85
55	35	36	120
65	40	51	170
70	45	66	220
80	50	84	280
90	55	101	335
95	60	125	415
105	65	146	485

*POSTED SPEED

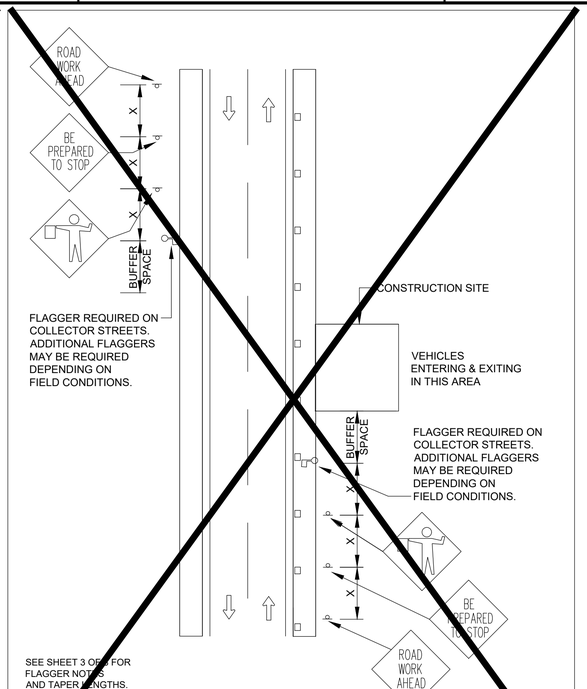
CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS

FLAGGER SETUP FOR 2 LANE ROADWAY

RECORD COPY SIGNED BY BILL GARDNER — 03/13/06 — ADOPTED

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 804S-2
3 OF 8



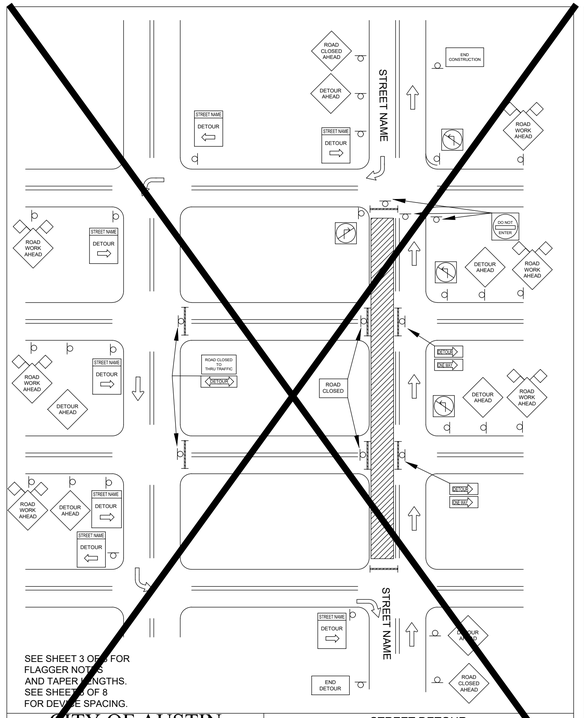
CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS

FLAGGER SETUP FOR VEHICLES ENTERING AND EXITING WORK SITE

RECORD COPY SIGNED BY BILL GARDNER — 03/13/06 — ADOPTED

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 804S-2
4 OF 8



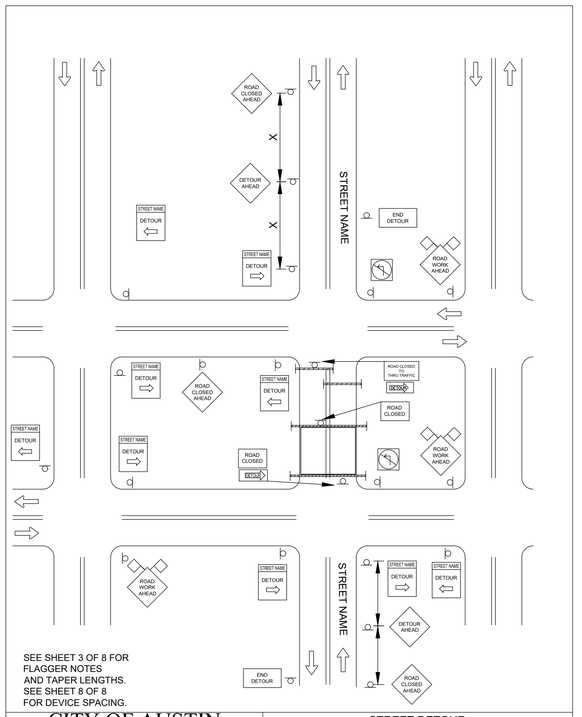
CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS

STREET DETOUR SINGLE DIRECTION

RECORD COPY SIGNED BY BILL GARDNER — 03/13/06 — ADOPTED

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 804S-2
5 OF 8



CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS

STREET DETOUR BOTH DIRECTIONS

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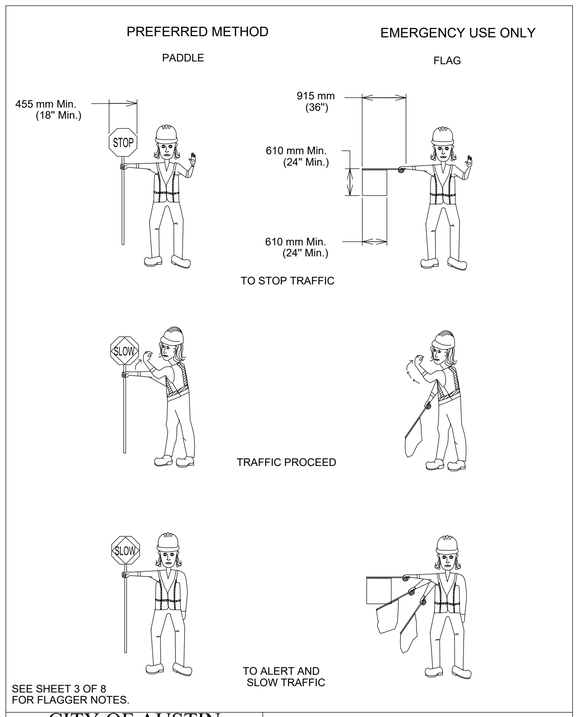
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 804S-2
6 OF 8



CITY OF AUSTIN
DEPARTMENT OF PUBLIC WORKS

USE OF HAND SIGNALING DEVICES

RECORD COPY SIGNED BY BILL GARDNER — 03/13/06 — ADOPTED

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO. 804S-2
7 OF 8

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FIRM REGISTRATION NUMBER: F-533

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AUSTIN WATER UTILITY

BRYKER ROAD
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DRAWN BY: J. Willig
CHECKED BY: M. Meriwether

SHEET TITLE

TRAFFIC CONTROL

TRAFFIC CONTROL DETAILS

SCALE: AS SHOWN

SHEET TC-18
43 OF 55

Typical Transition Lengths and Suggested Maximum Spacing of Devices

Speed KMPH	Posted Speed MPH	Formula	Minimum Desirable Taper Lengths (L) Meters (Feet) 3.0(10) Offset Meters (feet)	3.3(11) Offset Meters (feet)	3.6(12) Offset Meters (feet)	Suggested Max. Device Spacing On a taper Meters (feet)	On a tangent Meters (feet)	Suggested Sign Spacing Meters (Feet) "X" Dimension
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55	35		65 (205)	70 (225)	75 (245)	10 (35)	25-25 (70-90)	50 (160)
65	40		80 (265)	90 (295)	100 (320)	12 (40)	25-30 (80-100)	75 (240)
70	45	L=WS	135 (450)	150 (495)	165 (540)	13 (45)	25-30 (90-110)	100 (320)
80	50		150 (500)	165 (550)	180 (600)	15 (50)	30-35 (100-125)	120 (400)
90	55		165 (550)	185 (605)	200 (660)	16 (55)	35-40 (110-140)	150 (500)
95	60		180 (600)	200 (660)	220 (720)	18 (60)	40-45 (120-150)	180 (600)
105	65		195 (650)	215 (715)	235 (780)	19 (65)	40-50 (130-165)	210 (700)
115	70		215 (700)	235 (770)	255 (840)	21 (70)	45-55 (140-175)	240 (800)

LEGEND

- Channelizing devices
- Trailer mounted flashing arrow board
- Flagger

TRAFFIC DETOUR NOTES:

1. "STREET CLOSED" AND "STREET CLOSED TO THRU TRAFFIC" MAY BE USED IN PLACE OF "ROAD CLOSED" AND "ROAD CLOSED TO THRU TRAFFIC".
2. THE USE OF A STREET SIGN NAME MUNTED WITH THE M4-9 DETOUR SIGN** IS REQUIRED. THE STREET NAME PLATE SHOULD BE PLACED ABOVE THE DETOUR SIGN. THE PLATE MAY HAVE EITHER A WHITE-ON-GREEN OR A BLACK-ON-ORANGE LEGEND.
3. ADDITIONAL "DO NOT ENTER SIGNS" MAY BE DESIRABLE AT INTERSECTIONS WITH INTERVENING STREETS.
4. A M4-9 DETOUR SIGN** WITH AN ADVANCE TURN ARROW MAY BE USED IN ADVANCE OF A TURN ON MULTI-LANE STREETS, SUCH SIGNS SHOULD BE USED.
5. M4-9 DETOUR SIGNS** MAY BE LOCATED ON THE FAR SIDE OF INTERSECTIONS.

** TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TYPICAL LENGTHS & SPACING OF DEVICES, LEGEND and GENERAL NOTES	
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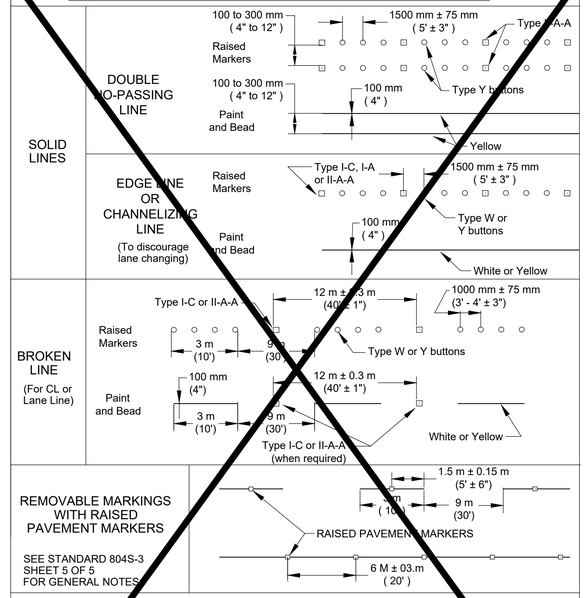
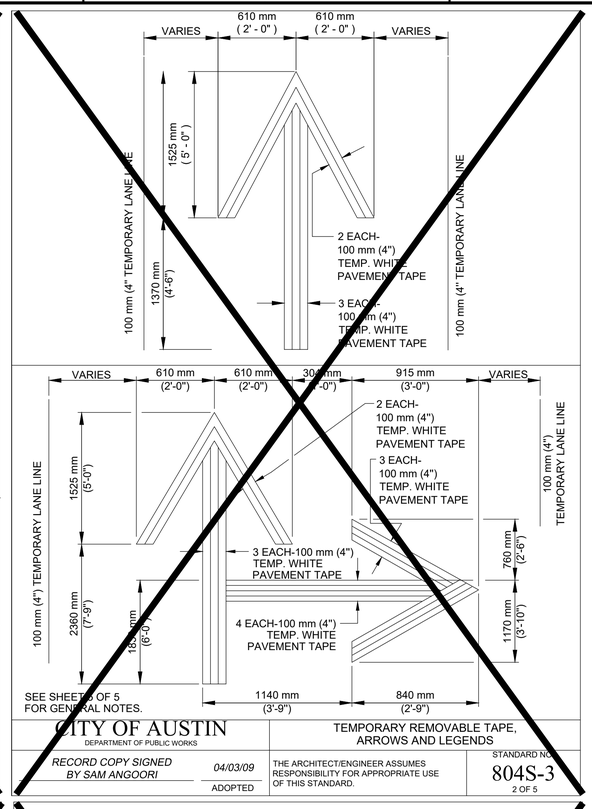
STANDARD WORK ZONE PAVEMENT MARKINGS DETAIL



NOTE: IF RAISED PAVEMENT MARKERS ARE USED TO SUPPLEMENT REMOVABLE MARKINGS,THE MARKERS SHALL BE APPLIED TO THE TOP OF THE TAPE AT THE APPROXIMATE MID-LENGTH OF THE BROKEN LINES AND AT APPROXIMATE 6 m (20') SPACING FOR SOLID LINES. THIS ALLOWS AN EASIER REMOVAL OF RAISED MARKERS AND TAPE.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TEMPORARY TRAFFIC CONTROL PAVEMENT MARKINGS	
RECORD COPY SIGNED BY SAM ANGOORI 04/03/09 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-3 1 OF 5



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TEMPORARY REMOVABLE TAPE, ARROWS AND LEGENDS	
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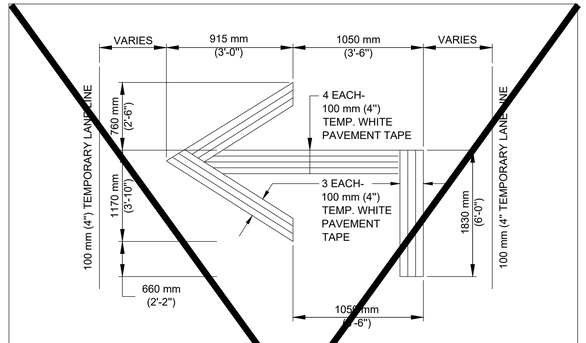
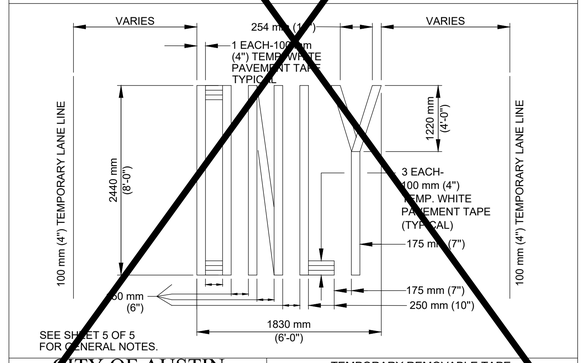
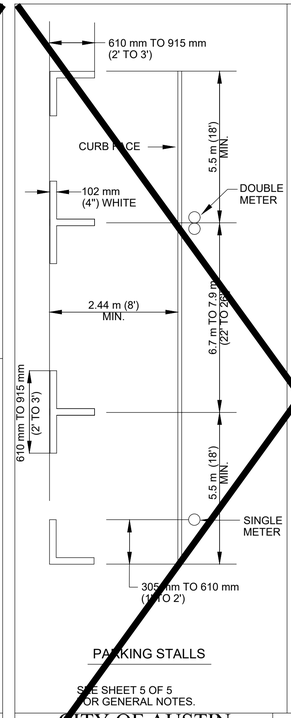
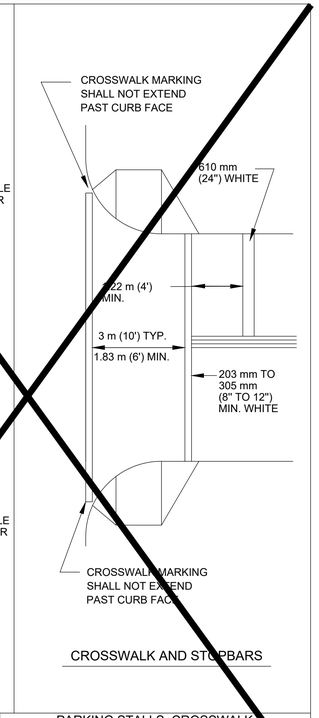




CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	TEMPORARY REMOVABLE TAPE, ARROWS AND LEGENDS	
RECORD COPY SIGNED BY SAM ANGOORI 04/03/09 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-3 3 OF 5



PARKING STALLS



CROSSWALK AND STOPBARS

SEE SHEET 5 OF 5 FOR GENERAL NOTES.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	PARKING STALLS, CROSSWALK AND STOP BARS	
RECORD COPY SIGNED BY SAM ANGOORI 04/03/09 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-3 4 OF 5

1. ALL PAVEMENT MARKINGS USED SHALL CONFORM TO THE CURRENT EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY AND EXISTING PAVEMENT MARKINGS ON ALL ROADWAYS WITHIN THE CONSTRUCTION LIMITS AND ON ANY ROADWAY OUTSIDE THE CONSTRUCTION LIMITS THAT REQUIRES THE REROUTING OF TRAFFIC FOR HIS WORK.
3. ALL ROADWAYS TO BE OPENED TO TRAFFIC SHALL HAVE TEMPORARY OR STANDARD PAVEMENT MARKINGS INSTALLED AS SHOWN IN THE DRAWINGS, AT THE END OF EACH DAY'S OPERATION.
4. MARKINGS SHALL PROVIDE A VISIBLE REFERENCE FOR A MINIMUM DISTANCE OF 91.5 m (300') DURING NORMAL DAYLIGHT HOURS AND 49 m (160') WHEN ILLUMINATED BY AUTOMOBILE LOW-BEAM HEADLIGHTS AT NIGHT, UNLESS SIGHT DISTANCE IS RESTRICTED BY ROADWAY GEOMETRICS.
5. ALL TEMPORARY REMOVABLE PAVEMENT MARKINGS SHALL BE SUPPLEMENTED WITH RAISED PAVEMENT MARKERS.
6. TEMPORARY REMOVABLE PAVEMENT MARKING TAPE IS THE PREFERRED PAVEMENT MARKING; HOWEVER, THE CONTRACTOR MAY, WITH APPROVAL OF THE ENGINEER OR DESIGNATED REPRESENTATIVE, USE RAISED PAVEMENT MARKINGS, PAINT AND BEADS OR THERMOPLASTIC IF THE ROADWAY IS TO BE COMPLETELY RESURFACED.
7. PAVEMENT MARKINGS THAT ARE NO LONGER APPLICABLE AND WHICH MAY CREATE CONFUSION OR DIRECT A MOTORIST TOWARD OR INTO THE CLOSED PORTION OF THE ROADWAY, SHALL BE REMOVED OR OBLITERATED BEFORE THE ROADWAY IS OPENED TO TRAFFIC. THE ABOVE DOES NOT APPLY TO SHORT-DURATION, SHORT TERM STATIONARY OR INTERMEDIATE TERM STATIONARY WORK.
8. REMOVAL OR OBLITERATION OF PAVEMENT MARKINGS INCLUDES CENTERLINES, CHANNELIZING LINES, LANE LINES, EDGE LINES, WORDS, ARROWS, SYMBOLS AND RAISED PAVEMENT MARKINGS.
9. PAVEMENT MARKINGS SHALL BE REMOVED OR OBLITERATED TO THE FULLEST EXTENT POSSIBLE, SO AS NOT TO LEAVE A DISCERNIBLE MARK. GRINDING OF PAVEMENT MARKINGS WILL ONLY BE ALLOWED ON PAVEMENT THAT IS TO BE COMPLETELY REPLACED.
10. TEMPORARY FLEXIBLE-REFLECTIVE TABS MAY BE USED FOR TEMPORARY PAVEMENT MARKINGS ON NEW PAVEMENT, PROVIDED THEY ARE PLACED ON 1.5 m (5') CENTERS.
11. THE CONTRACTOR SHALL PLACE TEMPORARY FLEXIBLE-REFLECTIVE TABS IMMEDIATELY AFTER THE FINAL HMAC OVERLAY AS EACH LANE IS COMPLETED AND READY FOR TRAFFIC. NO DIRECT PAYMENT WILL BE MADE FOR THIS OPERATION, BUT WILL BE CONSIDERED SUBSIDIARY TO THE OTHER BID ITEMS. FINAL STRIPING SHOULD BE COMPLETED WITHIN FOURTEEN (14) DAYS OF THE FINAL PAVING.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	GENERAL NOTES	
RECORD COPY SIGNED BY SAM ANGOORI 04/03/09 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-3 5 OF 5

ARCADIS
FIRM REGISTRATION NUMBER: F-533

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STATE OF TEXAS
MICHAEL C. MERIWETHER
58563
LICENSED PROFESSIONAL ENGINEER
Michael Meriwether
12-01-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

COPYRIGHT:	ARCADIS U.S., INC.
DATE:	AUGUST 2020
PROJECT NO.:	02908105.0000
DESIGNED BY:	M. Meriwether
DRAWN BY:	J. Willig
CHECKED BY:	M. Meriwether

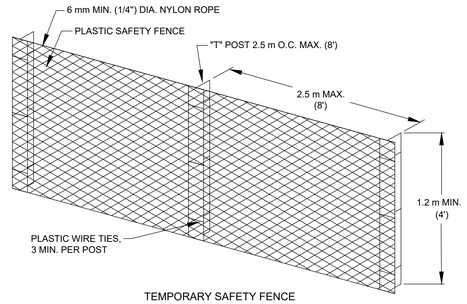
SHEET TITLE

TRAFFIC CONTROL

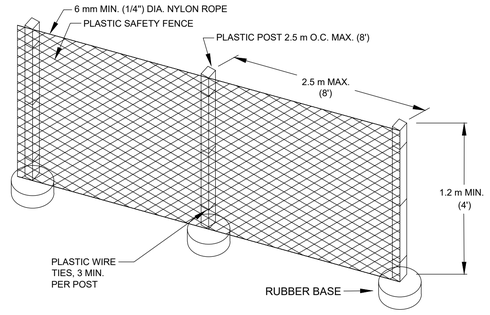
TRAFFIC CONTROL DETAILS

SCALE: AS SHOWN

SHEET TC-19
44 OF 55



TEMPORARY SAFETY FENCE

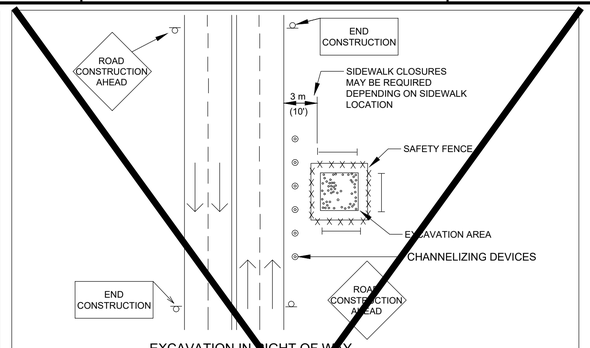


PORTABLE SAFETY FENCE

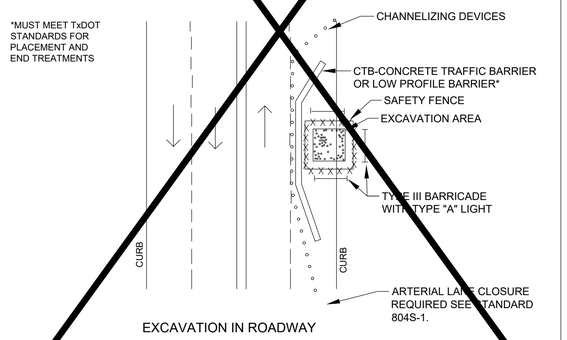
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		SAFETY FENCE	
RECORD COPY SIGNED BY SAM ANGOORI	*04/03/09* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-4 1 OF 9

1. SAFETY FENCE SHALL BE USED TO PROTECT ALL EXCAVATIONS IN THE RIGHT-OF-WAY.
2. SAFETY FENCES SHALL BE USED TO SEPARATE CONSTRUCTION ACTIVITIES FROM PEDESTRIAN.
3. ALL SAFETY FENCING SHALL BE PLASTIC, 1,200 mm (48") MINIMUM HEIGHT AND ORANGE IN COLOR.
4. SAFETY FENCE USED WITHIN THE ROADWAY SHALL BE REFLECTORIZED WITH A MINIMUM OF TWO (2) STRIPS OF RETROREFLECTIVE MATERIAL, A MINIMUM OF 25 mm (1") WIDE, THE LENGTH OF THE FENCE OR DELINEATED BY CHANNELIZING DEVICES.
5. SAFETY FENCE USED TO SEPARATE SIDEWALKS FROM CONSTRUCTION ACTIVITIES SHALL HAVE MINIMUM ENCROACHMENT TO THE SIDEWALK.
6. AS A MINIMUM, SAFETY FENCING IS REQUIRED IN AREAS ADJACENT TO EXCAVATIONS GREATER THAN OR EQUAL TO 150 mm (6").
7. SAFETY FENCING SHALL BE PAID FOR UNDER ITEM 803S, "BARRICADES, SIGNS AND TRAFFIC HANDLING", PAY ITEM NO. 803S-SF.
8. PORTABLE SAFETY FENCE MOUNTS SHALL BE APPROVED BY THE TRANSPORTATION DIVISION PRIOR TO CONSTRUCTION.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		SAFETY FENCE	
RECORD COPY SIGNED BY SAM ANGOORI	*04/03/09* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-4 2 OF 9

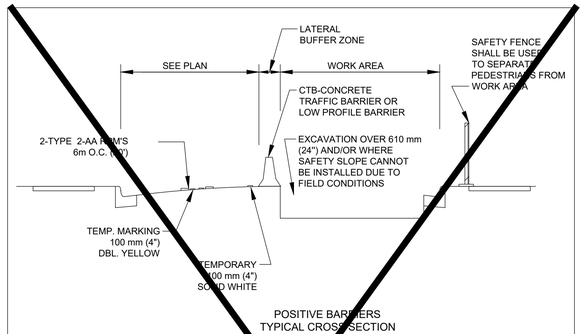


EXCAVATION IN RIGHT OF WAY

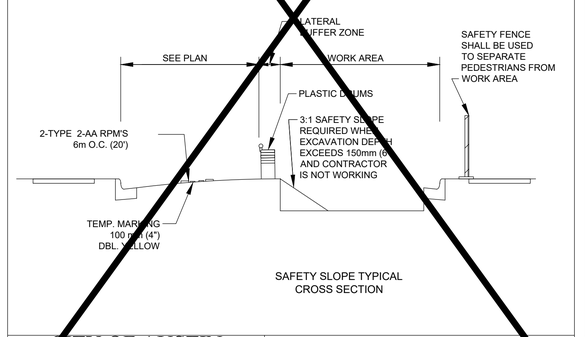


EXCAVATION IN ROADWAY

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		LARGE EXCAVATION	
RECORD COPY SIGNED BY SAM ANGOORI	*04/03/09* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-4 3 OF 9

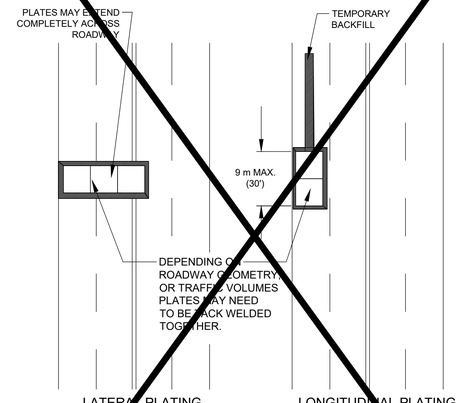


POSITIVE BARRIERS
TYPICAL CROSS SECTION



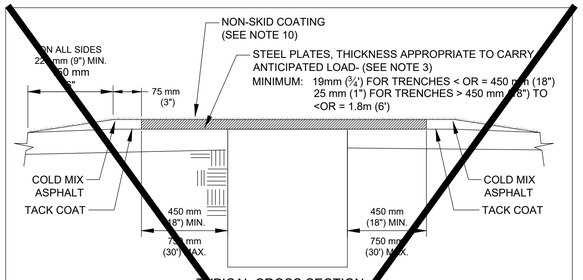
SAFETY SLOPE TYPICAL
CROSS SECTION

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		WORK AREA PROTECTION	
RECORD COPY SIGNED BY SAM ANGOORI	*04/03/09* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-4 4 OF 9

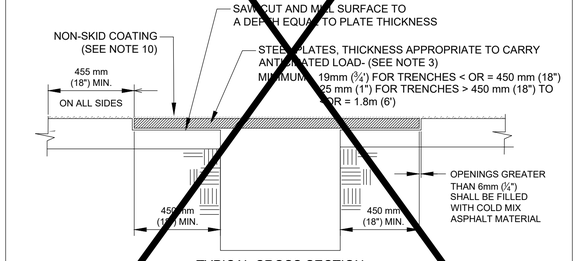


LATERAL PLATING LONGITUDINAL PLATING

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		STEEL PLATING	
RECORD COPY SIGNED BY SAM ANGOORI	*04/03/09* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-4 5 OF 9



TYPICAL CROSS SECTION
CASE I- LOW TRAFFIC VOLUME/LIMITED IN-SERVICE TIME



TYPICAL CROSS SECTION
CASE II- EXTENDED IN-SERVICE PLATING AND/OR HEAVILY - TRAFFICKED ROADS/STEETS (HMAC PAVEMENTS ONLY)

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		STEEL PLATING	
RECORD COPY SIGNED BY SAM ANGOORI	*04/03/09* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 804S-4 6 OF 9

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PROFESSIONAL ENGINEER
Michael Meriwether
12-01-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

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DRAWN BY:	J. Willig
CHECKED BY:	M. Meriwether

SHEET TITLE

TRAFFIC CONTROL

TRAFFIC CONTROL DETAILS

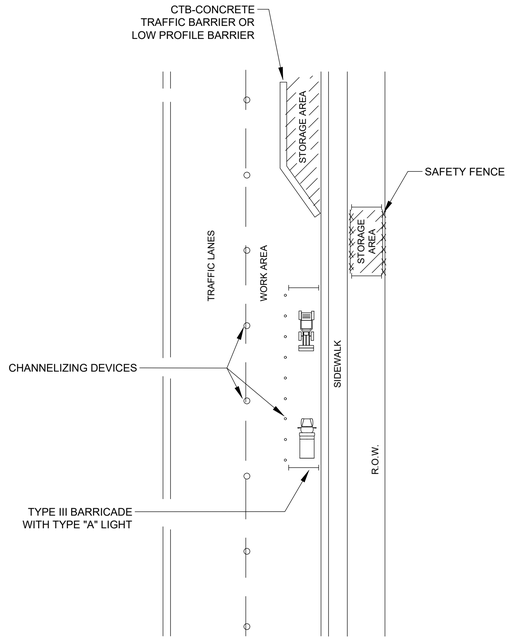
SCALE: AS SHOWN

SHEET TC-20
45 OF 55

NOTES:

1. WHERE TRAFFIC MUST CROSS TRENCHES, THE CONTRACTOR SHALL PROVIDE SUITABLE BRIDGES.
2. THE USE OF STEEL PLATES SHALL BE APPROVED BY THE RIGHT OF WAY MANAGEMENT DIVISION OF WATERSHED PROTECTION AND DEVLOPMENT DEPARTMENT PRIOR TO INITIATION OF CONSTRUCTION.
3. THE THICKNESS OF PLATES FOR TRENCH WIDTHS EXCEEDING 1.8 m (6') SHALL BE ESTABLISHED IN AN ANALYSIS COMPLETED BY A LICENSED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF TEXAS. THE ANALYSIS SHALL BE BASED ON HS-20 TRAFFIC LOADING WITH A MAXIMUM PLATE DEFLECTION OF 50 mm (2") WHEN EXPERIENCING SAID LOADING. FOR SITUATIONS WHERE MULTIPLE LAYERS OF PLATES (OR STACKED PLATES) ARE TO BE EMPLOYED, THE SEAMS (IE. THE INTER-FACE BETWEEN PLACED SIDE-BY-SIDE) OF THE UPPER LAYER SHALL BE PLACED PERPENDICULAR TO THE SEAMS OF THE UNDERLYING PLATES.
4. WHEN APPROVED, THE TYPE OF PLATE INSTALLATION SHALL BE BASED ON THE ANTICIPATED LENGTH OF TIME THE PLATE WILL BE IN SERVICE: CASE I: A CASE I INSTALLATION SHALL APPLY FOR NO LONGER THAN A 2 WEEK PERIOD. CASE II: A CASE II INSTALLATION SHALL APPLY FOR NO LONGER THAN 2 WEEK PERIOD.
5. THE TOPSIDE OF THE STEEL PLATE SHALL BE FLAT AND FREE OF ANY CLIPS, CHAINS, ATTACHMENTS, WELDMENTS OR SURFACE IRREGULARITIES.
6. PLATES WITH A PERMANENT DISPLACEMENT (I.E. DISPLACEMENT ANYWHERE ON THE SURFACE OF THE PLATE WITH RESPECT TO A PLANE FORMED BY THE OUTSIDE EDGES) THAT EXCEEDS 12 mm (½") SHALL NOT BE USED FOR PLATING PURPOSES. PLATES THAT DEVELOP A PERMANENT DISPLACEMENT EXCEEDING 12 mm (½") DURING SERVICE SHALL BE REMOVED AND REPLACED.
7. THE PLATES SHALL BE PROVIDED WITH APPROPRIATE NUMBER OF KEYHOLE SLOTS OR CIRCULAR HOLES FOR HANDLING, LIFTING, INSTALLATION AND REMOVAL PURPOSES.
8. THE CONTRACTOR SHOULD AVOID USING A LONG SERIES OF PLATES THAT RUN PARALLEL TO VEHICULAR TRAFFIC WHEELS PATHS.
9. ADDITIONAL METHODS OF SECURING PLATES MAY BE REQUIRED DEPENDING ON FIELD CONDITIONS.
10. FOR PLATES 1.8 M (6') OR GREATER IN DIRECTION OF TRAFFIC, A NON-SKID COATING SHOULD BE APPLIED TO THE ENTIRE SURFACE AREA OF ALL PLATES, AS WELL AS ADJACENT AREAS. THE NON-SKID COATING SHALL BE TCA (TEXTURED COATING OF AMERICA, INC.) STRATA-GRIP DECK COATING SYSTEM; SLIPFIX, INC. SPS (SLIP PROTECTION SURFACE) OR AN EQUIVALENT PRODUCT APPROVED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.

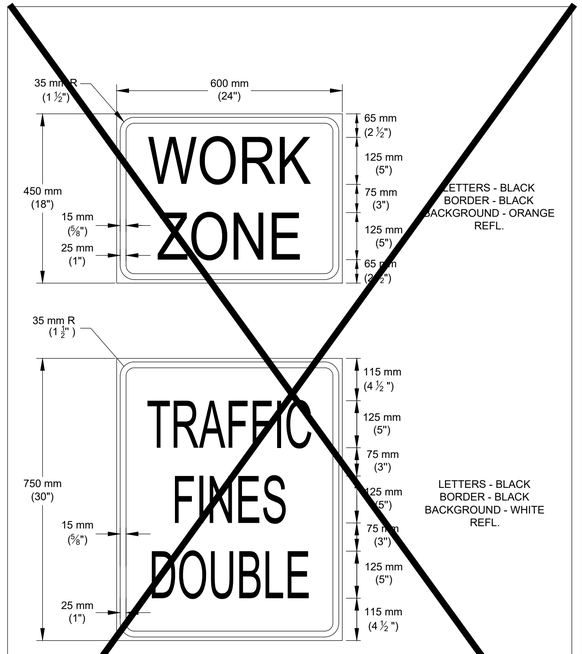
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		STEEL PLATING	STANDARD NO.
RECORD COPY SIGNED BY SAM ANGOORI	*04/03/09* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	804S-4 7 OF 9



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		MATERIAL AND EQUIPMENT STORAGE	STANDARD NO.
RECORD COPY SIGNED BY SAM ANGOORI	*04/03/09* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	804S-4 8 OF 9

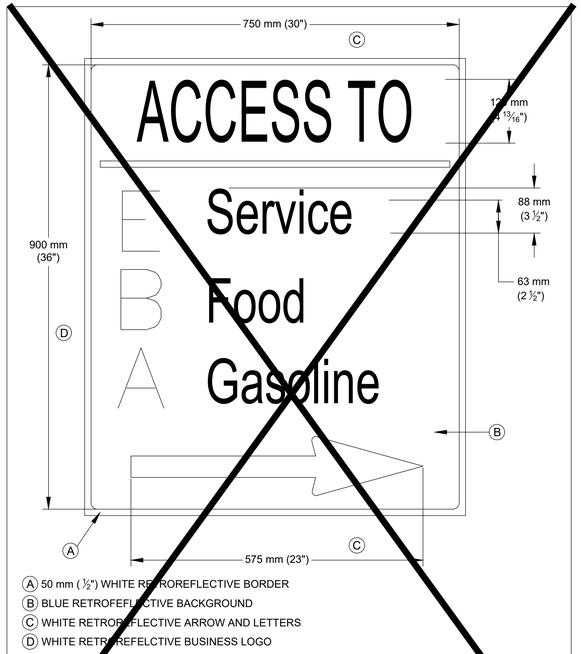
1. STORAGE OF EQUIPMENT AND MATERIALS SHALL BE RESTRICTED TO LOCATIONS WHERE DRIVER SIGHT DISTANCES TO TRAFFIC, PEDESTRIANS, BUSINESSES AND SIDE STREET INTERSECTIONS ARE NOT OBSTRUCTED OR WHERE AN UNSIGHTLY APPEARANCE. AS DETERMINED BY THE ENGINEER, WILL NOT EXIST.
2. EQUIPMENT MUST BE PARKED AS FAR AWAY FROM THE TRAVELWAYS AS PRACTICAL.
3. TOTAL AREA USED FOR EQUIPMENT STORAGE SHALL BE KEPT TO A MINIMUM.
4. ALL MATERIALS STORED IN THE RIGHT-OF-WAY MUST BE MAINTAINED IN A NEAT AND ORGANIZED MANNER.
5. MATERIALS STORED MAY NOT BE MORE THAN 915 mm (36") IN HEIGHT.
6. ALL MATERIALS STORED MUST BE USED WITHIN THREE (3) DAYS.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		MATERIAL AND EQUIPMENT STORAGE	STANDARD NO.
RECORD COPY SIGNED BY SAM ANGOORI	*04/03/09* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	804S-4 9 OF 9



SEE STANDARD DETAIL 804S-5 SHEET 5 OF 13 FOR SKID-MOUNTED SIGN SUPPORT.

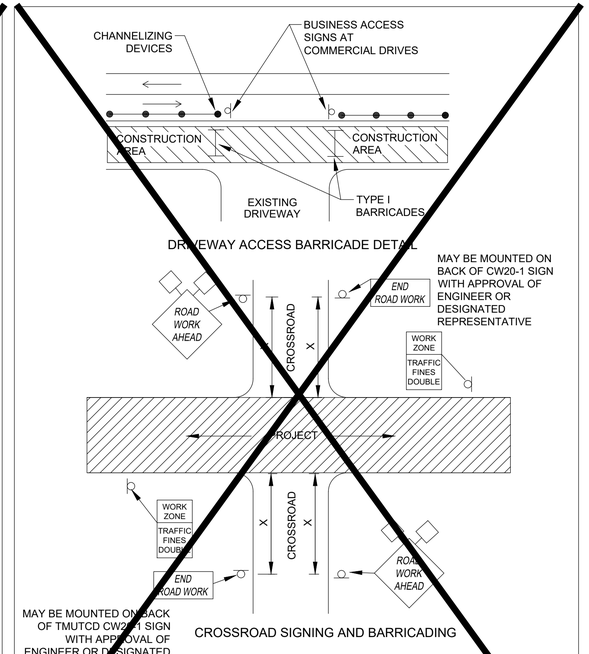
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		SPECIAL WORK ZONE SIGNS	STANDARD NO.
RECORD COPY SIGNED BY SAM ANGOORI	*01/04/10* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	804S-5 9 OF 13



(A) 50 mm (½") WHITE RETROREFLECTIVE BORDER
(B) BLUE RETROFEFLECTIVE BACKGROUND
(C) WHITE RETROREFLECTIVE ARROW AND LETTERS
(D) WHITE RETROREFELCTIVE BUSINESS LOGO

NOTES:
1. CONTRACTORS CAN MAKE BUSINESS NAMES REMOVABLE/CHANGEABLE AS AN OPTION.
2. BUSINESS LOGO ARE OPTIONAL. IF USED LETTERING MUST BE MINIMIZED.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		SPECIAL WORK ZONE SIGNS	STANDARD NO.
RECORD COPY SIGNED BY SAM ANGOORI	*01/04/10* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	804S-5 10 OF 13



SEE STANDARD 804S-5 SHEET 12 OF 13 AND SHEET 13 OF 13 FOR GENERAL NOTES AND DEVICE SPACING.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		SIGNING AND BARRICADING CROSSROAD & DRIVEWAY	STANDARD NO.
RECORD COPY SIGNED BY SAM ANGOORI	*01/04/10* ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	804S-5 11 OF 13

ARCADIS
FIRM REGISTRATION NUMBER: F-533

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STATE OF TEXAS
MICHAEL C. MERIWETHER
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CITY OF AUSTIN, TEXAS
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CHECKED BY:	M. Meriwether

SHEET TITLE

TRAFFIC CONTROL

TRAFFIC CONTROL DETAILS

SCALE: AS SHOWN

SHEET TC-21
46 OF 55

1. ALL TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES AND WARNING SIGNS SHALL BE FURNISHED, PLACED, CONSTRUCTED AND MAINTAINED IN THE APPROPRIATE TYPES AND SIZES AND FLAGGER OPERATIONS EXECUTED IN ACCORDANCE WITH THE CURRENT EDITION OF THE TEXAS MANUAL ON UNIFORM CONTROL DEVICES (TMUTCD), THE CITY OF AUSTIN STANDARD SPECIFICATIONS SERIES 800 AND THE CITY OF AUSTIN TRANS- PORTATION CRITERIA MANUAL, OR AS DIRECTED BY THE ENGINEER OR DESIGNATED RE- PRESENTATIVE. IF A CONFLICT ARISES THEN THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL SHALL CONTROL UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.
2. THE CONTRACTOR SHALL NOTIFY THE TRANSPORTATION DIVISION OF THE DEPARTMENT OF PUBLIC WORKS AT 974-7024 NO LATER THAN THE MONDAY OF THE WEEK DURING WHICH THE CONTRACTOR INTENDS TO SET UP BARRICADES TO START CONSTRUCTION.
3. PROPOSED CONSTRUCTION TRAFFIC MOVEMENTS MAY REQUIRE EXISTING SIGNAL HEADS TO BE RELOCATED. THE CITY OF AUSTIN WILL REVIEW SIGNAL HEAD LOCATIONS DURING CONSTRUCTION AND PERFORM THE REQUIRED ADJUSTMENTS. THE CONTRACTOR SHALL CONTACT THE TRANSPORTATION DIVISION OF THE DEPARTMENT OF PUBLIC WORKS AT 974-7024, THREE (3) DAYS PRIOR TO PLACMENT ANY TRAFFIC CONTROLS WHICH MAY REQUIRE SIGNAL HEAD ADJUSTMENTS/RELOCATION.
4. THE CONTRACTOR SHALL PROVIDE ONE (1) FULL-TIME OFF-DUTY, UNIFORMED AUSTIN POLICE DEPARTMENT CERTIFIED PEACE OFFICER AND ONE (1) VEHICLE OF THE TYPE APPROVED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE FOR TEMPORARY LANE CLOSURES WHEN UNDERSEALING, MILLING, PAVING AND WHEN WORKING IN INTERSECTIONS AS PART OF THE TRAFFIC CONTROL OPERATIONS. THE PEACE OFFICER SHALL BE ABLE TO SHOW PROOF OF CERTIFICATION BY THE TEXAS COMMISSION ON LAW ENFORCEMENT OFFICER STANDARDS.
5. THE CONTRACTOR SHALL NOTIFY ALL OTHER GOVERNMENTAL AGENCIES WHOSE RIGHTS-OF-WAY ARE AFFECTED BY HIS WORK ACTIVITIES. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL TRAFFIC CONTROL DEVICES THAT THEY MAY NEED.
6. THE CONTRACTOR SHALL MAINTAIN ONE (1) DUST-FREE LANE OF TRAFFIC IN EACH DIRECTION AT ALL TIMES, UNLESS OTHERWISE NOTED IN THE DRAWINGS OR APPROVED THE ENGINEER OR DESIGNATED REPRESENTATIVE.
7. THERE SHALL BE A MINIMUM OF THREE (3) METERS (10 FEET) CLEAR WIDTH FOR EACH LANE OF TRAFFIC IN CHANNELIZED AREAS, UNLESS OTHERWISE NOTED ON THE DRAWINGS OR APPROVED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE.
8. THE CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS AT ALL TIMES. IF ACCESS CANNOT BE MAINTAINED, THE CONTRACTOR WITH THE APPROVAL OF THE ENGINEER OR DESIGNATED REPRESENTATIVE SHALL PROVIDE AT LEAST 24 HOUR WRITTEN NOTICE OF LIMITED ACCESS TO AFFECTED PROPERTY OWNERS. THE CONTRACTOR SHALL PROVIDE BUSINESS ACCESS SIGNS AS NEEDED TO NFORM DRIVERS OF THE LOCATIONS OF ALL DRIVEWAYS.
9. TEMPORARY LANE CLOSURES IN THE CENTRAL BUSINESS DISTRICT (CBD) OR ON ARTERIAL STREETS SHALL NOT BE PERMITTED DURING THE HOURS OF 7 AM TO 9 AM AND 4 PM TO 6PM MONDAY THROUGH FRIDAY UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE TRANSPORTATION DIVISION.
10. TRAFFIC CONTROL SHOWN ON STANDARD DETAILS IS TYPICAL. ADDITIONAL SIGNING AND/OR BARRICADING, AS WELL AS TEMPORARY PAVEMENT MARKINGS AND OBLITERATION/ RESTORATION OF EXISTING PAVEMENT MARKINGS, MAY BE REQUIRED DEPENDING ON FIELD CONDITIONS. FIELD ADJUSTMENTS TO TRAFFIC CONTROLS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO ITEM NO. 803S "BARRICADES, SIGNS AND TRAFFIC HANDLING".
11. THE CONTRACTOR SHALL DESIGNATE A COMPETENT PERSON FOR TRAFFIC CONTROL. THE COMPETENT PERSON SHALL MAKE INSPECTIONS OF THE TRAFFIC CONTROL DEVICES AT LEAST TWO (2) TIMES A DAY (ONCE AT THE BEGINNING OF THE DAY AND ONCE AT THE END OF THE DAY), INCLUDING NON-WORKING DAYS, ENSURING THAT ALL DEVICES ARE IN THEIR PROPER PLACE AND ARE IN WORKING ORDER.
12. ALL DEVICES SHALL BE MADE USING MATERIALS LISTED ON THE TxDOT APPROVED PRODUCTS LIST.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		GENERAL TRAFFIC CONTROL NOTES	STANDARD NO.
RECORD COPY SIGNED BY SAM ANGOORI	01/04/10 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	804S-5 12 OF 13

1. ALL PERSONS WORKING WITHIN THE RIGHT-OF-WAY SHALL WEAR A BRIGHTLY COLORED SAFETY VEST. FOR NIGHTTIME WORK THE VEST SHALL BE RETROREFLECTIVE.
2. WHEN AN INTERSECTION IS CLOSED FOR CONSTRUCTION, THE CONTRACTOR SHALL PROCEED WITH CONSTRUCTION IN SUCH A MANNER THAT THE CLOSURE TIME IS MINIMIZED.
3. THE CONTRACTOR SHALL NOTIFY THE CAPITAL METRO DISPATCHER AT 385-4295 ONE (1) WEEK PRIOR TO LANE CLOSURES ADJACENT TO BUS STOPS.

DURATION OF WORK

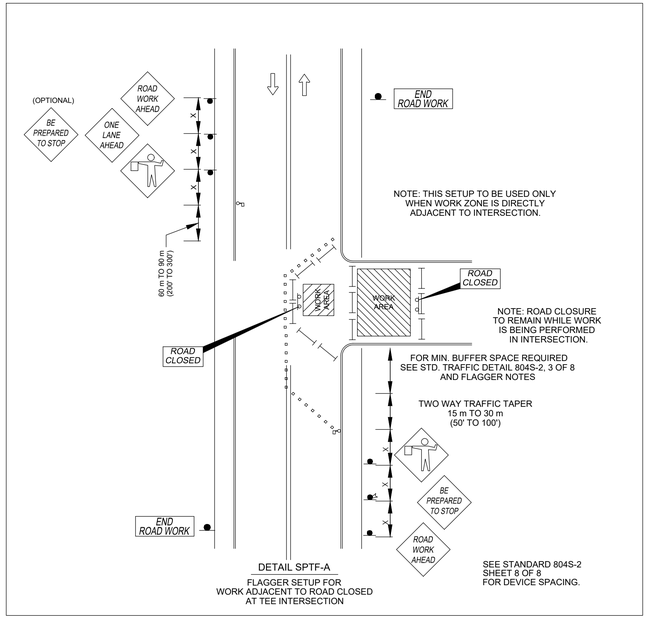
WORK DURATION IS A MAJOR FACTOR IN DETERMINING THE NUMBER AND TYPES OF DEVICES USED IN TEMPORARY TRAFFIC ZONES. THE FIVE (5) CATEGORIES OF WORK DURATION AND THEIR TIME AT A LOCATION ARE AS FOLLOWS:

- LONG-TERM STATIONARY-WORK THAT OCCUPIES A LOCATION FOR MORE THAN 3 DAYS.
- INTERMEDIATE-TERM STATIONARY-WORK THAT OCCUPIES A LOCATION FROM OVERNIGHT TO 3 DAYS.
- SHORT-TERM STATIONARY-DAYTIME WORK THAT OCCUPIES A LOCATION FROM 1 TO 12 HOURS.
- SHORT-DURATION WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.
- MOBILE-WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

Typical Transition Lengths and Suggested Maximum Spacing of Devices

Posted Speed KPH (MPH)	Formula	Minimum Desirable Taper Lengths (L) Meters (Feet) 3.0(10) Offset Meters (feet)	3.3(11) Offset Meters (feet)	3.6(12) Offset Meters (feet)	Suggested Max. Device Spacing On a taper Meters (feet)	On a tangent Meters (feet)	Suggested Sign Spacing Meters (Feet) "X" Dimension
50 (30)	L=WS²/60	45 (150)	50 (165)	55 (180)	9 (30)	15-20 (60-75)	40 (120)
55 (35)		65 (205)	70 (225)	75 (245)	10 (35)	25-25 (70-90)	50 (160)
65 (40)		80 (265)	90 (295)	100 (320)	12 (40)	25-30 (80-100)	75 (240)
70 (45)	L=WS	135 (450)	495)	165 (540)	13 (45)	25-30 (90-110)	100 (320)
80 (50)		150 (500)	165 (550)	180 (600)	15 (50)	30-35 (100-125)	120 (400)
90 (55)		165 (550)	185 (605)	200 (660)	16 (55)	35-40 (110-140)	150 (500)
100 (60)		180 (600)	200 (660)	220 (720)	18 (60)	40-45 (120-150)	180 (600)
105 (65)		195 (650)	215 (715)	235 (780)	19 (65)	40-50 (130-165)	210 (700)
115 (70)		215 (700)	235 (770)	255 (840)	21 (70)	45-55 (140-175)	240 (800)

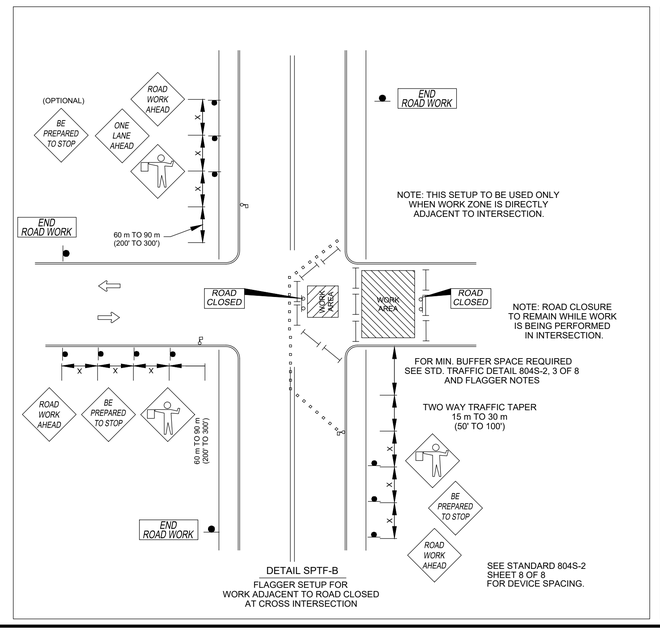
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		GENERAL TRAFFIC CONTROL NOTES	STANDARD NO.
RECORD COPY SIGNED BY SAM ANGOORI	01/04/10 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	804S-5 13 OF 13



DETAIL SPTF-A

FLAGGER SETUP FOR WORK ADJACENT TO ROAD CLOSED AT TEE INTERSECTION

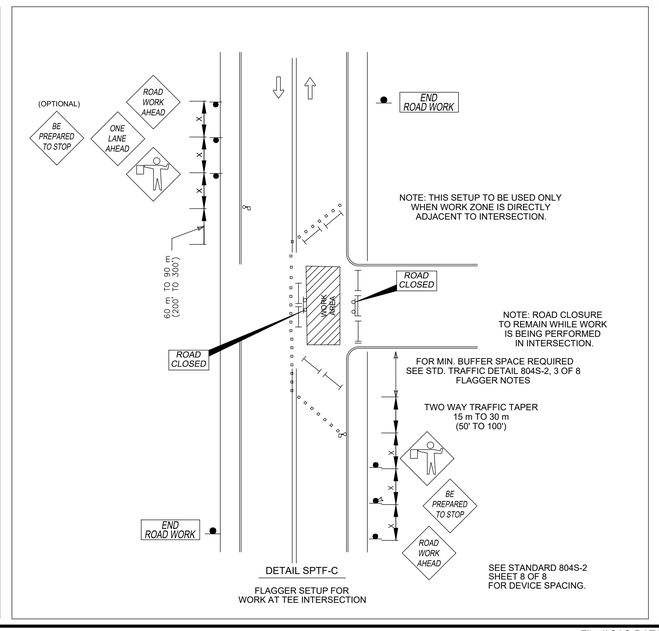
SEE STANDARD 804S-2 SHEET 8 OF 8 FOR DEVICE SPACING.



DETAIL SPTF-B

FLAGGER SETUP FOR WORK ADJACENT TO ROAD CLOSED AT CROSS INTERSECTION

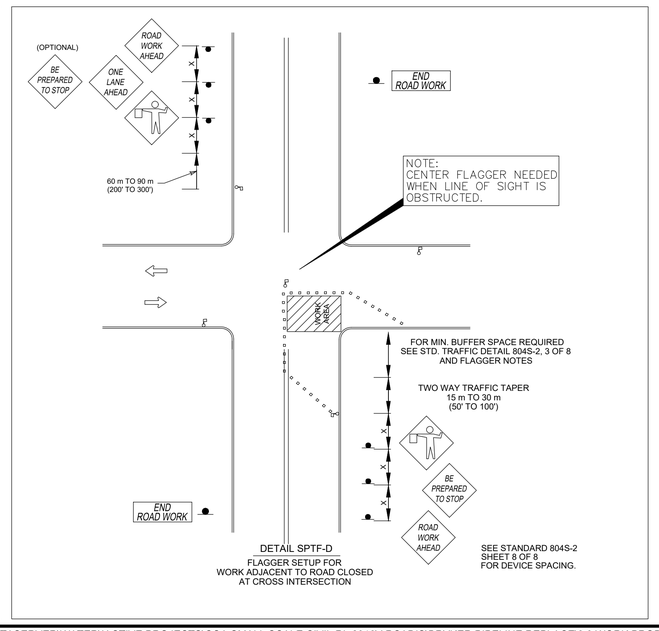
SEE STANDARD 804S-2 SHEET 8 OF 8 FOR DEVICE SPACING.



DETAIL SPTF-C

FLAGGER SETUP FOR WORK AT TEE INTERSECTION

SEE STANDARD 804S-2 SHEET 8 OF 8 FOR DEVICE SPACING.



DETAIL SPTF-D

FLAGGER SETUP FOR WORK ADJACENT TO ROAD CLOSED AT CROSS INTERSECTION

SEE STANDARD 804S-2 SHEET 8 OF 8 FOR DEVICE SPACING.

ARCADIS
FIRM REGISTRATION NUMBER: F-533

CAS CONSULTING & SERVICES, INC.
CIVIL ENGINEERING | PROGRAM MANAGEMENT | CONSTRUCTION MANAGEMENT
7908 Cameron Road | Austin, TX 78754 | REG. NO. F-003572
Main: 512.836.2388 | Fax: 512.836.4515

STATE OF TEXAS
MICHAEL C. MERIWETHER
58563
LICENSED
PROFESSIONAL ENGINEER
Michael Meriwether
12–01–2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: AUGUST 2020

PROJECT NO.: 02908105.0000

DESIGNED BY: M. Meriwether

DRAWN BY: J. Willig

CHECKED BY: M. Meriwether

SHEET TITLE

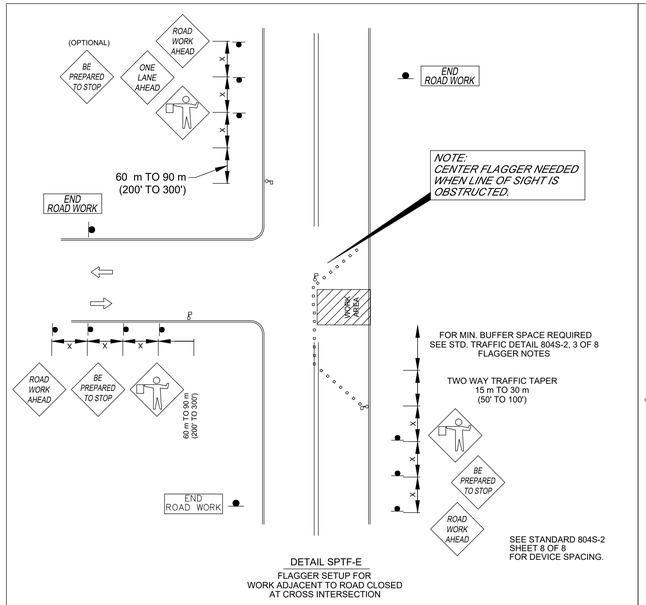
TRAFFIC CONTROL

TRAFFIC CONTROL DETAILS

SCALE: AS SHOWN

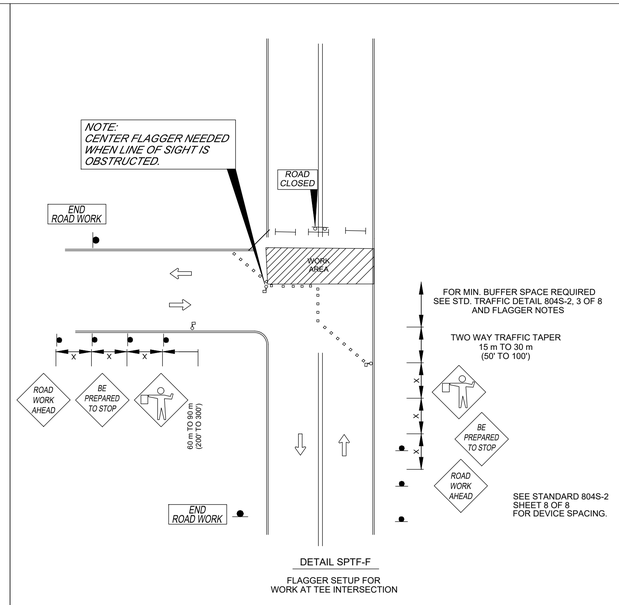
SHEET TC-22

47 OF 55



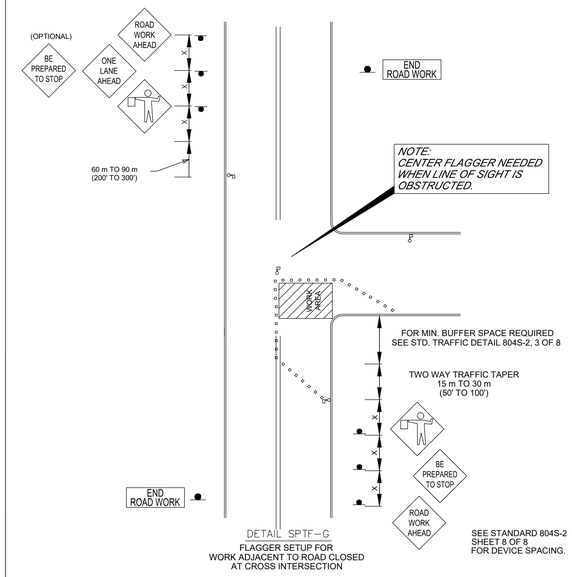
DETAIL SPTF-E

FLAGGER SETUP FOR WORK ADJACENT TO ROAD CLOSED AT CROSS INTERSECTION



DETAIL SPTF-F

FLAGGER SETUP FOR WORK AT TEE INTERSECTION



DETAIL SPTF-G

FLAGGER SETUP FOR WORK ADJACENT TO ROAD CLOSED AT CROSS INTERSECTION

ARCADIS
FIRM REGISTRATION NUMBER: F-533

CAS CONSULTING & SERVICES, INC.
CIVIL ENGINEERING | PROGRAM MANAGEMENT | CONSTRUCTION MANAGEMENT
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STATE OF TEXAS
MICHAEL C. MERIWETHER
58563
LICENSED
PROFESSIONAL ENGINEER
Michael Meriwether
12–01–2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN FOUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: AUGUST 2020

PROJECT NO.: 02908105.0000

DESIGNED BY: M. Meriwether

DRAWN BY: J. Willig

CHECKED BY: M. Meriwether

SHEET TITLE

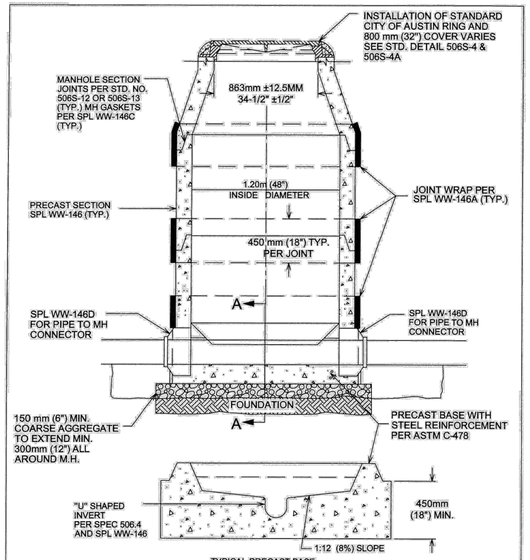
TRAFFIC CONTROL

TRAFFIC CONTROL DETAILS

SCALE: AS SHOWN

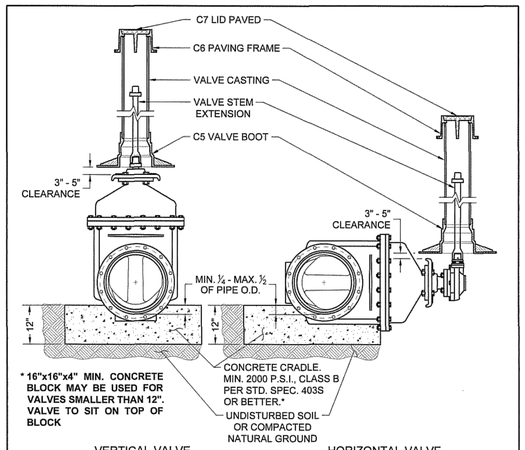
SHEET TC-23

48 OF 55



NOTE:
1. THE MANHOLE BASE SHALL BE BEDDED ON 150 mm (6") COARSE AGGREGATE. THE CONTRACTOR SHALL LEVEL AND PLUMB THE BASE PRIOR TO SETTING THE PRECAST MANHOLE RISER SECTIONS ON THE PRECAST CONCRETE BASE.
2. MANHOLE FOUNDATION SHALL MEET OR EXCEED SPEC. 506.5B.

CITY OF AUSTIN AUSTIN WATER UTILITY	WATER TIGHT WASTEWATER MANHOLE ON PRECAST BASE	
Kathi L. Flowers 5/31/2011	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 506S-6



*** 16"x16"x4" MIN. CONCRETE BLOCK MAY BE USED FOR VALVES SMALLER THAN 12". VALVE TO SIT ON TOP OF BLOCK**

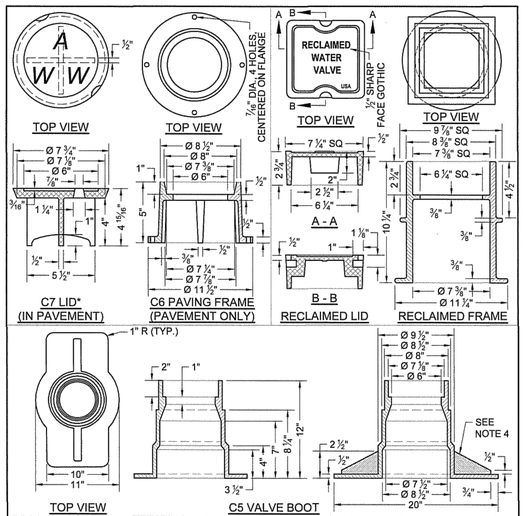
VERTICAL VALVE

HORIZONTAL VALVE
ONLY TO BE USED WHEN CALLED OUT ON THE DRAWINGS.

NOTES:
1. WELD SOCKET 2⅛" x 2" DEEP TO 1" SCH. 40 CARBON STEEL ROUND STEM EXTENSION, FITTED ON OPERATING NUT, [SCH. 80 FOR LENGTHS OVER 10'.]
2. VALVE CASTING SHALL BE 6" DI PIPE WITH BELL OR COLLAR CENTERED OVER VALVE BOOT.
3. NUT AT TOP OF VALVE EXTENSION ROD SHALL BE SQUARE 2" LONG WELDED TO TOP OF ROD.
4. VALVE STEM EXTENSIONS ARE REQUIRED ON ALL VALVES THAT EXCEED 3' DEEP FROM FINISHED GRADE. VALVE EXTENSIONS SHALL BE PLACED SUCH THAT THE EXTENSION NUT IS BETWEEN 12" AND 18" FROM FINISHED GRADE.

RECLAIMED WATER: ALL RECLAIMED PVC PIPE SHALL BE MANUFACTURED PURPLE PIPE. HDPE PIPE SHALL BE MANUFACTURED WITH PURPLE STRIPES. ALL OTHER PIPE AND APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL PIPE AND FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-27D. ALL COVERS SHALL HAVE "RECLAIMED WATER" CAST INTO THEM.

CITY OF AUSTIN AUSTIN WATER	TYPICAL GATE VALVE 4" - 16"	
Kathi L. Flowers 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 511-AW-01 1 OF 4

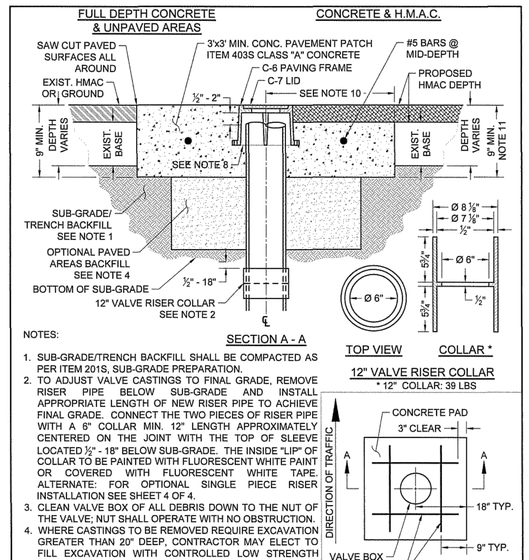


NOTES:
1. MATERIAL SHALL BE GRAY CAST IRON, ASTM A48, GRADE 30B.
2. THE MANUFACTURER'S IDENTIFICATION AND CASTING NUMBER, AND THE COUNTRY WHERE CAST, SHALL BE DISTINCTLY CAST ONTO EACH LID, FRAME, COLLAR AND BASE.
3. DRAFT AND SHRINKAGE ALLOWANCE SHALL BE IN ACCORDANCE WITH NORMAL FOUNDRY PRACTICE.
4. CASTING FINISH BY MANUFACTURER SHALL INCLUDE REMOVAL OF FINS AND FLASHING, AND PAINT WITH BLACK ASPHALT COATING.

WEIGHTS:
C7 LID: 13 LBS
RECLAIMED LID: 15 LBS
C6 FRAME: 23 LBS
RECLAIMED FRAME: 33 LBS
C5 BASE: 78 LBS

* LETTERING SHALL BE 1 ½"
2 PICK BAR SLOTS REQUIRED

CITY OF AUSTIN AUSTIN WATER	TYPICAL GATE VALVE 4" - 16"	
Kathi L. Flowers 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 511-AW-01 2 OF 4



NOTES:
1. SUB-GRADE/TRENCH BACKFILL SHALL BE COMPACTED AS PER ITEM 201S, SUB-GRADE PREPARATION.
2. TO ADJUST VALVE CASTINGS TO FINAL GRADE, REMOVE RISER PIPE BELOW SUB-GRADE AND INSTALL APPROPRIATE LENGTH OF NEW RISER PIPE TO ACHIEVE FINAL GRADE. CONNECT THE TWO PIECES OF RISER PIPE WITH A 6" COLLAR MIN. 12" LENGTH APPROXIMATELY CENTERED ON THE JOINT WITH THE TOP OF SLEEVE LOCATED ½" - 18" BELOW SUB-GRADE. THE INSIDE "LIP" OF COLLAR TO BE PAINTED WITH FLUORESCENT WHITE PAINT OR COVERED WITH FLUORESCENT WHITE TAPE. ALTERNATE: FOR OPTIONAL SINGLE PIECE RISER INSTALLATION SEE SHEET 4 OF 4.
3. CLEAN VALVE BOX OF ALL DEBRIS DOWN TO THE NUT OF THE VALVE; NUT SHALL OPERATE WITH NO OBSTRUCTION.
4. WHERE CASTINGS TO BE REMOVED REQUIRE EXCAVATION GREATER THAN 20" DEEP, CONTRACTOR MAY ELECT TO FILL EXCAVATION WITH CONTROLLED LOW STRENGTH MATERIAL (SPEC. ITEM 402S) TO THE UNDERSIDE OF THE CONCRETE. PAVEMENT PATCH IN LIEU OF COMPACTED BACKFILL.
5. REINFORCING STEEL SHALL MEET SPEC. ITEM 406S 7.
6. NO MORE THAN 2 SECTIONS OF PIPE SHALL BE USED FROM VALVE TO FINAL GRADE.
7. BELL AND SPIGOT IS ACCEPTABLE FOR DEPTH OVER 18'.

SECTION A - A

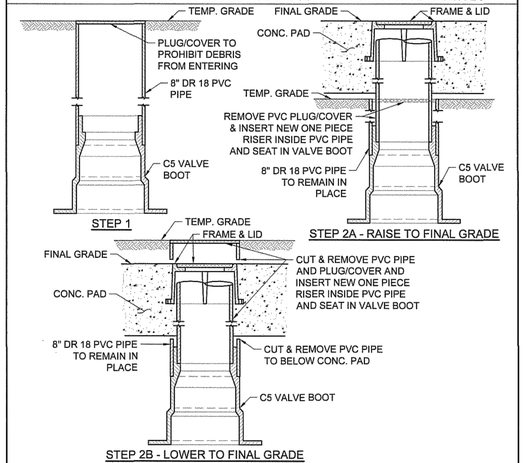
TOP VIEW COLLAR *
12" VALVE RISER COLLAR
* 12" COLLAR: 39 LBS

PLAN VIEW

CITY OF AUSTIN AUSTIN WATER	TYPICAL GATE VALVE 4" - 16"	
Kathi L. Flowers 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 511-AW-01 3 OF 4

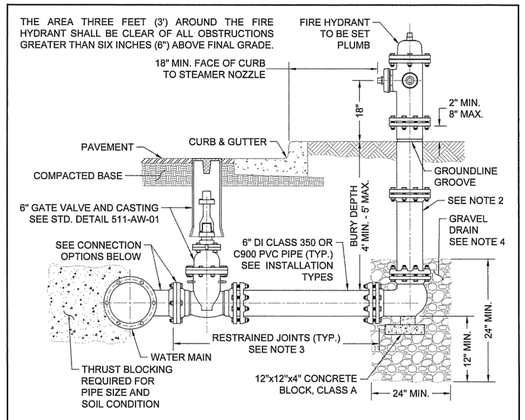
NOTES (CON'T):

8. PAVING FRAME SHALL BE FLUSH WITH THE CONC. PAD AND PLACED ½" - 2" ABOVE RISER PIPE (FRAME SHALL NOT REST ON RISER.)
9. IN UNPAVED AREAS, INSTALL ONE DELINEATOR STAKE IMMEDIATELY ADJACENT TO THE EDGE OF THE CONCRETE PAD. DELINEATOR SHALL BE BLUE FOR POTABLE WATER AND PURPLE FOR RECLAIMED WATER AND SHALL EXTEND AT LEAST 60" ABOVE GROUND. DELINEATORS SHALL HAVE 2" WIDE, WHITE IN COLOR, TYPE I REFLECTIVE TAPE MOUNTED DIAGONALLY AT 12" SPACING ON BOTH SIDES.
10. VALVE SHALL TYPICALLY BE CENTERED IN CONCRETE DIAMOND BUT MAY BE OFFSET WITH A MIN. OF 12" FROM CENTER OF VALVE LID TO EDGE OF CONCRETE IN ALL DIRECTIONS.
11. MIN. TOTAL DEPTH OF ASPHALT PLUS CONC. IS 9" AND MIN. DEPTH OF CONC. PAD SHALL BE 5"

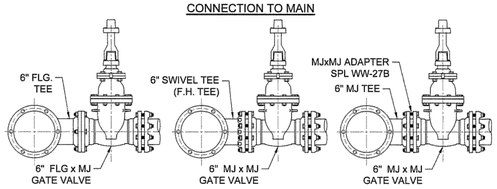


OPTIONAL ONE PIECE VALVE CASTING INSTALLATION

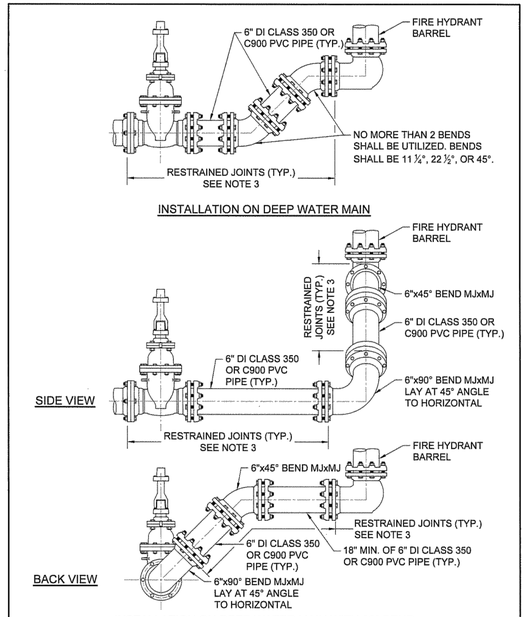
CITY OF AUSTIN AUSTIN WATER	TYPICAL GATE VALVE 4" - 16"	
Kathi L. Flowers 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 511-AW-01 4 OF 4



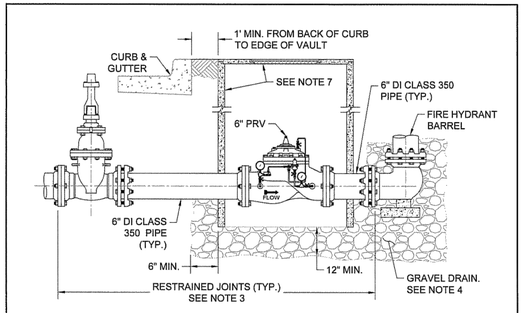
CONNECTION TO MAIN



CITY OF AUSTIN AUSTIN WATER	FIRE HYDRANT	
Kathi L. Flowers 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 511-AW-02 1 OF 3



CITY OF AUSTIN AUSTIN WATER	FIRE HYDRANT	
Kathi L. Flowers 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 511-AW-02 2 OF 3



INSTALLATION ON WATER MAIN WITH PRESSURE REDUCING VALVE (PRV)

NOTES: APPLICABLE TO ALL INSTALLATION TYPES.

1. NO PART OF A HYDRANT OR ITS NOZZLE CAPS SHALL BE WITHIN 6" OF ANY SIDEWALK OR PEDESTRIAN RAMP. ANY FIRE HYDRANT PLACED NEAR A STREET CORNER SHALL BE LOCATED OUTSIDE THE CURVE RADIUS AND A MINIMUM OF 4' FROM RAMPS.
2. ONE BARREL EXTENSION NOT EXCEEDING 2' LENGTH MAY BE INSTALLED DIRECTLY BELOW THE FIRE HYDRANT IN ORDER TO MEET THE REQUIRED BURY DEPTH OF 4' - 5'. BREAK AWAY BOLTS (SHOE TYPES) SHALL BE PROPERLY SPACED AND PLACED.
3. FIRE LINE SHALL HAVE ALL JOINTS RESTRAINED FROM MAIN TO FIRE HYDRANT. JOINTS SHOWN MAY VARY. SEE SPL WW-27, WW-27A, AND WW-27B FOR RESTRAINT OPTIONS.
4. BELOW EACH HYDRANT, A DRAINAGE PIT 24" IN DIAMETER AND 12" DEEP SHALL BE EXCAVATED AND FILLED WITH COMPACTED COARSE GRAVEL OR BROKEN STONE MIXED WITH COARSE SAND UNDER AND AROUND THE BOWL OF THE HYDRANT, AND TO A LEVEL 12" ABOVE THE HYDRANT DRAIN OPENING (SEE STD. SPEC. 510). THE HYDRANT DRAINAGE PIT SHALL NOT BE CONNECTED TO A SANITARY SEWER. THE DRAIN GRAVEL SHALL BE COVERED WITH FILTER FABRIC PER STD. SPEC. 620S. FOR PRV, GRAVEL SHALL EXTEND UNDER THE PRV VAULT 12" MIN. DEPTH UNDER THE VAULT AND 6" MIN. BEYOND VAULT.
5. FOR FIRE HYDRANT LEADS AT A MAIN OUTLET LARGER THAN 6" DIAMETER, OUTLET SHALL BE FLANGED AND A FLG x FLG REDUCER SHALL BE INSTALLED DIRECTLY ON THE OUTLET.
6. WRAP 8 MIL. POLY-FILM WRAP ON ALL BURIED PIPE AND FITTINGS.
7. FOR HYDRANTS WITH PRV: CLASS III RCP VAULT 60" MIN. I.D. WITH REINFORCED PRECAST CONCRETE LID (AASHTO H-20 LOADING) WITH COA FRAME AND 32" COVER WITH LETTERING MODIFIED FOR WATER.

CITY OF AUSTIN AUSTIN WATER	FIRE HYDRANT	
Kathi L. Flowers 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 511-AW-02 3 OF 3

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED PROFESSIONAL ENGINEER
11-12-2020

REVIEWED
December 02, 2020
Austin Water
Type Name Here

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN FOUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

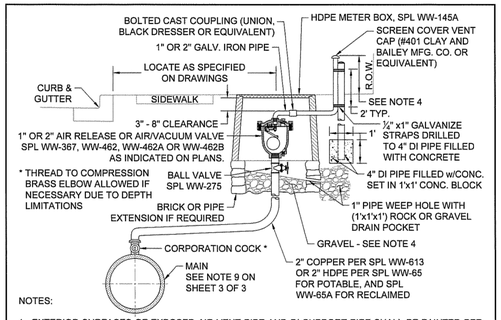
SHEET TITLE

CIVIL

STANDARD DETAILS

SCALE: AS SHOWN

SHEET SD-01
49 OF 55



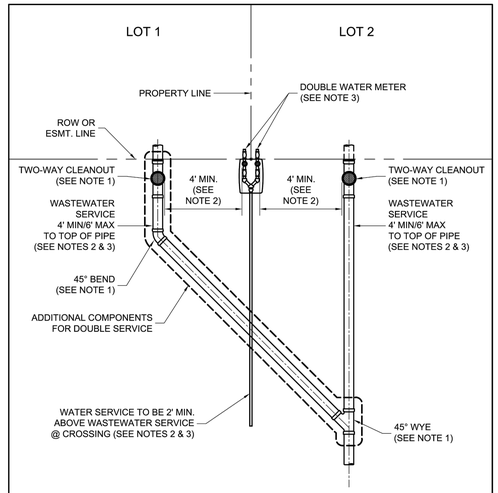
NOTES:

1. EXTERIOR SURFACES OF EXPOSED AIR VENT PIPE AND DI SUPPORT PIPE SHALL BE PAINTED PER SPL WW-3C. POTABLE WATER PIPE SHALL BE PAINTED SAFETY BLUE.
2. AIR VENT PIPE INSTALLATION SHALL BE AS NEAR AS PRACTICAL TO RIGHT-OF-WAY LINE WITH MINIMUM CLEARANCE OF 18" FROM ANY OBSTACLE.
3. HDPE METER BOX PENETRATION SHALL BE CORE BIT DRILLED. VOID SHALL BE FILLED WITH LINKSEAL LS 300 OR APPROVED EQUAL.
4. COMPACTED COARSE GRAVEL OR BROKEN STONE MIXED WITH SAND SLOPED TO DRAIN.
5. IN UNDEVELOPED AREAS, THE AIR VENT PIPE SHALL BE 4' MIN. IN HEIGHT SUPPORTED BY A 4" DIA. DI PIPE WHICH HAS BEEN FILLED WITH CONCRETE (SUPPORT PIPE SHALL BE 6' LONG, BURIED IN CLASS A CONCRETE OR CLSM 3' BELOW FINAL GRADE AND EXTENDING 3' ABOVE FINAL GRADE). INSTALL ONE DELINEATOR STAKE WITHIN 3' OF THE VAULT ON THE VEHICULAR ACCESS SIDE OF VAULT OR AS DIRECTED BY AUSTIN WATER. DELINEATOR SHALL BE BLUE FOR POTABLE WATER AND SHALL EXTEND AT LEAST 60" ABOVE GROUND. DELINEATORS SHALL HAVE 2" WIDE, WHITE IN COLOR, TYPE I REFLECTIVE TAPE MOUNTED DIAGONALLY AT 12" SPACING ON BOTH SIDES. IN DEVELOPED AREAS, THE AIR VENT PIPE SHALL BE 8" - 12" IN HEIGHT AND LOCATED NOT TO CONFLICT WITH SIDEWALK, DRIVEWAY, OR OTHER PEDESTRIAN TRAFFIC.
6. THE AIR VALVE AND ASSOCIATED PIPING SHALL BE INSTALLED ABOVE THE HIGHEST ELEVATION OF THE WATER MAIN. AIR VALVE PIPING, FROM THE WATER MAIN TO THE AIR VALVE, SHALL MAINTAIN A CONSTANT RISE, WITH NO DIPS, TO THE TOP OF THE GROUND.

1" - 2" AIR RELEASE OR AIR/VACUUM VALVE INSTALLATION - TYPE I

RECLAIMED WATER: ALL RECLAIMED PVC PIPE SHALL BE MANUFACTURED PURPLE PIPE. HDPE PIPE SHALL BE MANUFACTURED WITH PURPLE STRIPES. ALL OTHER PIPE AND APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL PIPE AND FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL BURIED DI AND CI PIPE AND FITTINGS SHALL ALSO BE WRAPPED IN PURPLE POLYETHYLENE PER SPL WW-27D. ALL COVERS SHALL HAVE "RECLAIMED WATER" CAST INTO THEM.

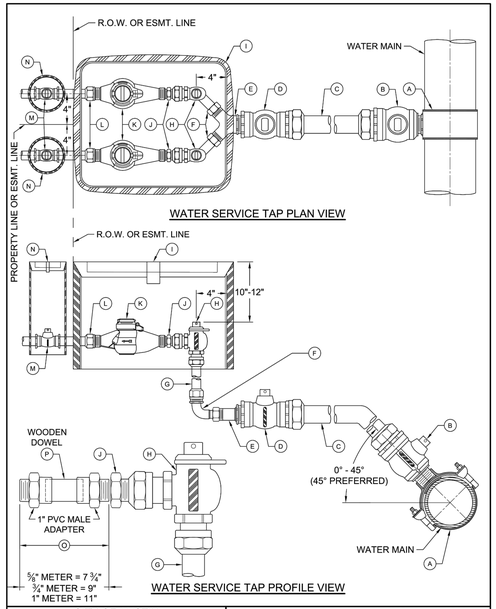
CITY OF AUSTIN AUSTIN WATER	AIR RELEASE AND AIR/VACUUM VALVE	
Kathi L. Flowers 05/18/2016 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 511-AW-04 1 OF 3



NOTES:

1. WASTEWATER SERVICE FITTINGS SHALL BE APPROVED FOR USE WITH THIS DETAIL AS LISTED ON SPL WW-227B-1.
2. UTILIZE EXISTING ALIGNMENT FOR REPAIR OR REPLACEMENT OF EXISTING WATER AND WASTEWATER SERVICES. WATER SERVICE SHALL BE INSTALLED AT A SHALLOWER GRADE THAN WASTEWATER SERVICE.
3. SEE STANDARD DETAIL 520-AW-01B FOR WATER SERVICE INSTALLATION AND 520-AW-01C FOR WASTEWATER SERVICE INSTALLATION.

CITY OF AUSTIN AUSTIN WATER	WATER / WASTEWATER SERVICE ON COMMON LOT LINE	
RECORD COPY SIGNED *JEFF A. KYLE* 11/07/2018 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 520-AW-01A 1 OF 1



CITY OF AUSTIN AUSTIN WATER	WATER SERVICE & METER INSTALLATION - 1" & SMALLER METERS	
JEFF A. KYLE 08/16/2019 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 520-AW-01B 1 OF 2

MATERIALS LIST:

A. 2" SERVICE CLAMP, SPL WW-264
B. 2" CORPORATION STOP, SPL WW-68
C. 2" HDPE WATER SERVICE TUBING, SPL WW-65
D. 2" BALL VALVE, SPL WW-68
E. SINGLE SERVICE: 2" MIP X 1" COPPER FLARE FITTING, SPL WW-68 OR DOUBLE SERVICE: 2" MIP X 1" COPPER FLARE WYE, SPL WW-68
F. 1" SWIVEL NUT x 1" COMPRESSION 90° BEND, SPL WW-68
G. 1" HDPE WATER SERVICE TUBING, SPL WW-65
H. 1" ANGLE METER STOP, SPL WW-68
I. METER BOX AND LID, SPL WW-145A; FOR DUAL 1" METERS: USE TWO SINGLE METER BOXES

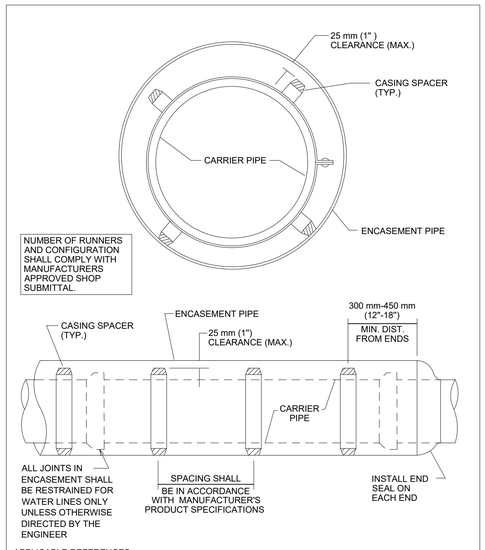
MATERIALS TO BE INSTALLED BY PLUMBER:

J. BRASS METER BUSHING - SIZE AS NEEDED TO CONNECT ANGLE METER STOP TO METER
K. WATER METER PURCHASED FROM AUSTIN WATER
L. BRASS WATER METER COUPLING MALE IPT x SWIVEL COUPLING NUT: ⅝" AND ¾" METERS: 8 ½" LONG x ¾" DIA. 1" METERS: 8 ½" LONG x 1" DIA.
M. PROPERTY OWNER'S CUT OFF VALVE, SPL WW-276
N. PROPERTY OWNER'S CUT OFF VALVE BOX AND LID
O. TEMPORARY METER SPACER (REQUIRED TO ASSURE METER WILL FIT APPROPRIATELY)
P. 1" WOODEN DOWEL (SHOW ADDRESS ON DOWEL USING WATERPROOF MARKER)

NOTES:

1. SERVICE CLAMP SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM, SPL WW-27D.
2. BRANCH CONNECTIONS AND ALL ANGLE METER STOPS MUST BE INSTALLED PRIOR TO ANY METER INSTALLATION.
3. TOP OF METER BOXES SHOULD BE 4" ABOVE GROUND.
4. PIPING AND TUBING IN STREET RIGHT-OF-WAY SHALL BE BEDDED IN GRANULAR MATERIALS AS REQUIRED BY SECTION 510.3 (14) OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS; BACKFILL ABOVE GRANULAR BEDDING AS REQUIRED BY SECTION 510.3 (25).
5. METER BOX MUST BE BEHIND CURB NEXT TO PROPERTY LINE OR EASEMENT AND OUT OF VEHICULAR TRAFFIC AREA AND SIDEWALK.
6. BALL VALVE "D" SHALL NOT BE LOCATED UNDER SIDEWALK, CURB, OR PAVEMENT, AND NOT BE LOCATED MORE THAN 36" BELOW FINAL GRADE.
7. METER SIZES TO BE SHOWN ON PLANS.
8. METER BOX CUT OUTS SHALL NOT EXCEED TWO TIMES THE PIPE DIAMETER.
9. INSTALL METALLIC TRACER TAPE, SPL WW-597, MINIMUM 1' ABOVE TUBING FROM SERVICE CLAMP "A" TO BALL VALVE "D".
10. TUBING SHALL BE PLACED IN A STRAIGHT ALIGNMENT AND ALLOWED TO RELAX AND "SNAKE" LOOSELY IN THE TRENCH. TUBING BEHIND CURB AND GUTTER SHALL BE INSTALLED WITH A MINIMUM 2' DEPTH OF COVER.
11. 1" TUBING, WHEN BENT, SHALL HAVE A RADIUS NO SMALLER THAN 3'. 2" TUBING, WHEN BENT, SHALL HAVE A RADIUS NO SMALLER THAN 5'. BRASS FITTINGS SHALL NOT BE CONNECTED TO A BENT SECTION OF TUBING.
12. SOLID, TUBULAR STAINLESS STEEL INSERT STIFFENERS FOR HDPE TUBING SHALL BE USED AT ALL COMPRESSION FITTINGS. INSERT STIFFENERS SHALL BE FROM THE SAME MANUFACTURER AS THE COMPRESSION FITTING USED.
13. FOR RECLAIMED WATER SERVICES AND METERS, ALL RECLAIMED TUBING SHALL BE MANUFACTURED SOLID PURPLE, SPL WW-65A. ALL APPURTENANCES SHALL BE MANUFACTURED PURPLE IF AVAILABLE. ALL FITTINGS THAT ARE NOT AVAILABLE FROM THE MANUFACTURER IN PURPLE SHALL BE PAINTED PURPLE PER SPL WW-3C. ALL METER BOX LIDS SHALL BE PURPLE AND HAVE **"RECLAIMED WATER"** CAST INTO THEM, SPL WW-145A.

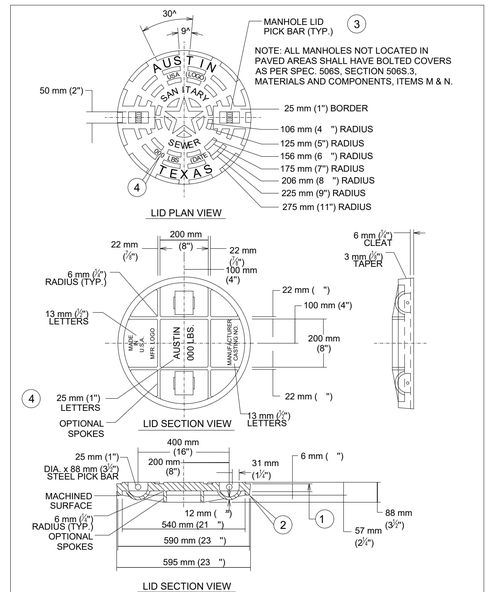
CITY OF AUSTIN AUSTIN WATER	WATER SERVICE & METER INSTALLATION - 1" & SMALLER METERS	
JEFF A. KYLE 08/16/2019 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 520-AW-01B 2 OF 2



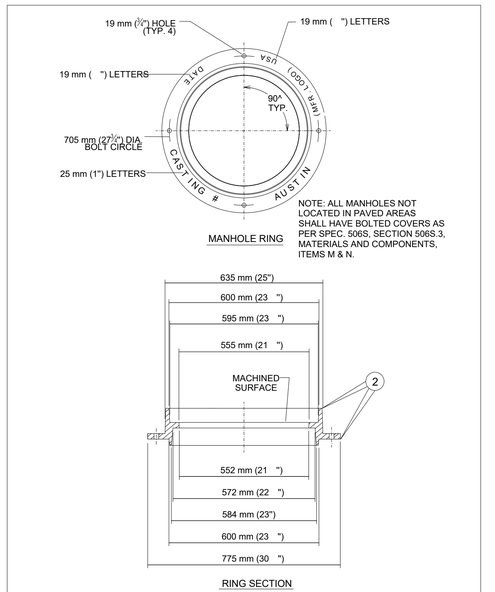
APPLICABLE REFERENCES

STANDARD SPECIFICATION: ITEM 510S.3 (19) W/WW STANDARD PRODUCTS LIST: SPLWW-575 FOR CASING SPACER AND SPLWW-575A FOR END SEAL.

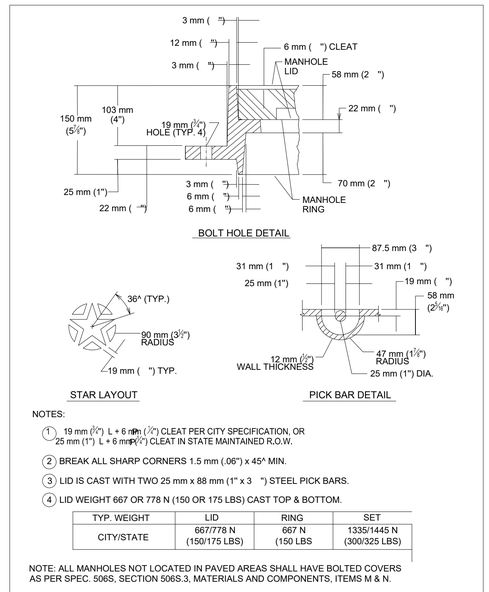
AUSTIN WATER UTILITY	ENCASEMENT DETAIL W/ CASING SPACERS	
RECORD COPY SIGNED BY KATHI L. FLOWERS 2/28/05 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 501S-1



CITY OF AUSTIN AUSTIN WATER UTILITY	SANITARY SEWER MANHOLE RING AND 610 mm (24") COVER	
RECORD COPY SIGNED BY KATHI L. FLOWERS 3/9/04 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 503S-2W 1 OF 3



CITY OF AUSTIN AUSTIN WATER UTILITY	SANITARY SEWER MANHOLE RING AND 610 mm (24") COVER	
RECORD COPY SIGNED BY KATHI L. FLOWERS 3/9/04 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 503S-2W 2 OF 3



NOTES:

1. 19 mm (¾") L + 6 mm (¼") CLEAT PER CITY SPECIFICATION, OR 25 mm (1") L + 6 mm (¼") CLEAT IN STATE MAINTAINED R.O.W.
2. BREAK ALL SHARP CORNERS 1.5 mm (.06") x 45^ MIN.
3. LID IS CAST WITH TWO 25 mm x 88 mm (1" x 3 ") STEEL PICK BARS.
4. LID WEIGHT 667 OR 778 N (150 OR 175 LBS) CAST TOP & BOTTOM.

TYP. WEIGHT	LID	RING	SET
CITY/STATE	667/778 N (150/175 LBS)	667 N (150 LBS	1335/1445 N (300/325 LBS)

NOTE: ALL MANHOLES NOT LOCATED IN PAVED AREAS SHALL HAVE BOLTED COVERS AS PER SPEC. 506S, SECTION 506S.3, MATERIALS AND COMPONENTS, ITEMS M & N.

CITY OF AUSTIN AUSTIN WATER UTILITY	SANITARY SEWER MANHOLE RING AND 610 mm (24") COVER	
RECORD COPY SIGNED BY KATHI L. FLOWERS 3/9/04 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 503S-2W 3 OF 3

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
12-3-2020

REVIEWED
December 03, 2020
Austin Water
Type Name Here

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN FOUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

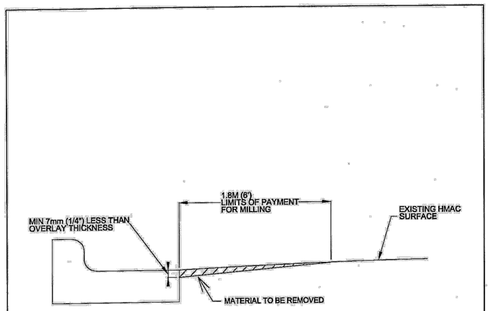
SHEET TITLE

CIVIL

STANDARD DETAILS

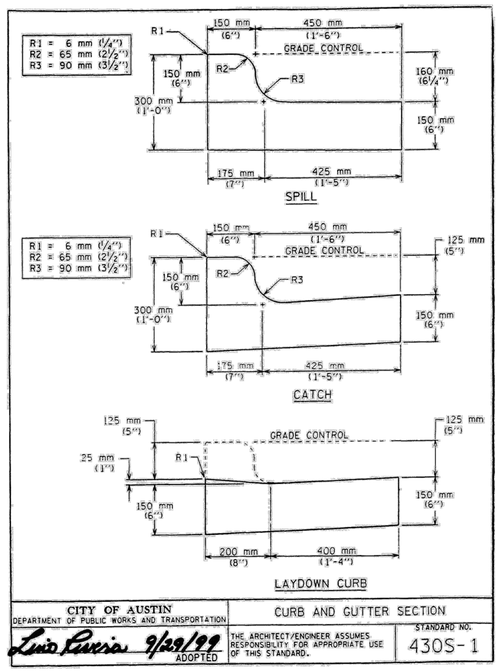
SCALE: AS SHOWN

SHEET SD-02
50 OF 55

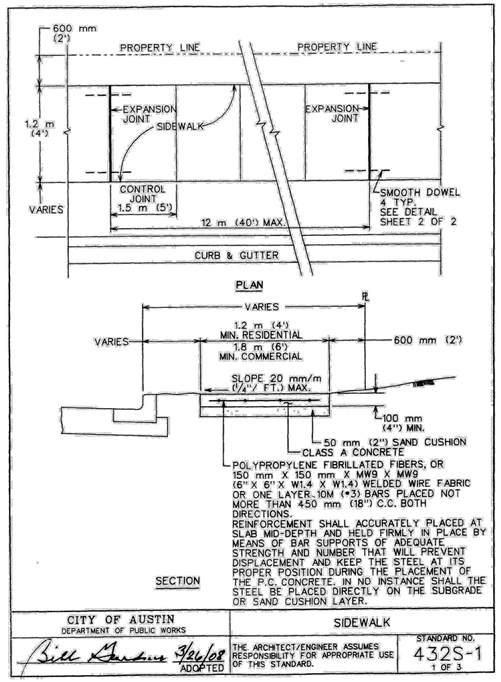


EDGE MILLING DETAIL

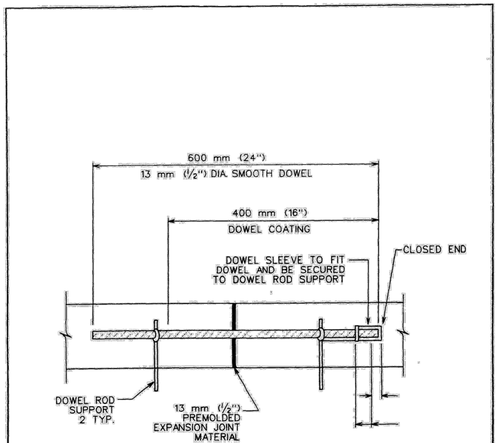
CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	HMAC PAVEMENT EDGE MILLING DETAIL	
7/1/09 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 315S-1



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	CURB AND GUTTER SECTION	
Luis Loureiro 9/29/99 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 430S-1

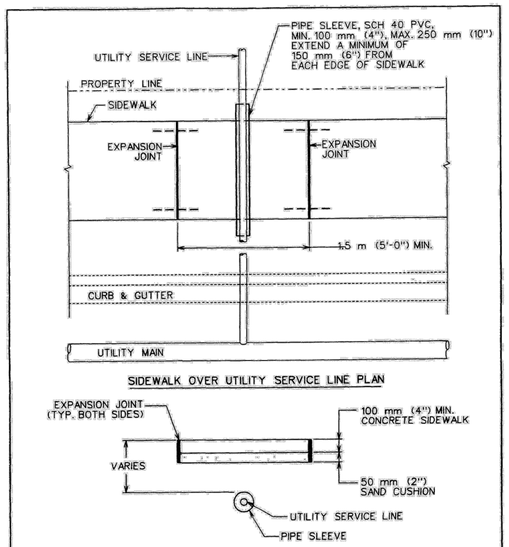


CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	SIDEWALK	
Bill Gardner 3/26/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 432S-1 1 OF 3



DOWEL DETAIL

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	SIDEWALK	
Bill Gardner 3/26/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 432S-1 2 OF 3

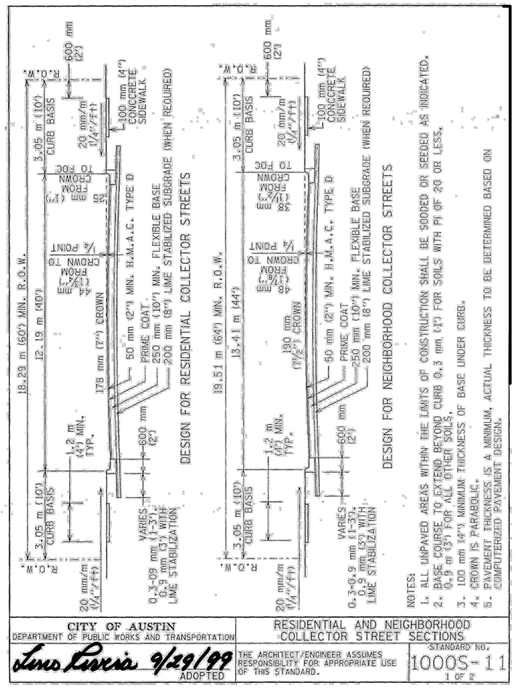


SIDEWALK OVER UTILITY SERVICE LINE PLAN

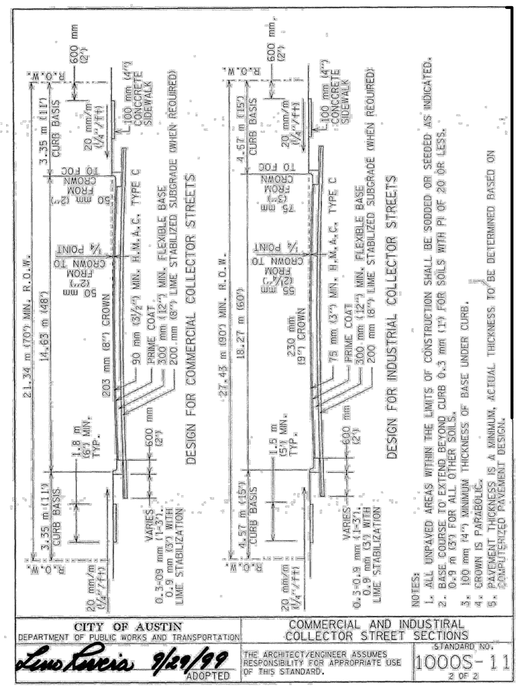
SECTION OF SIDEWALK OVER UTILITY SERVICE LINES

NOTES:
1. THIS STANDARD APPLIES TO THE INSTALLATION OF NEW UTILITIES OR UTILITIES BEING REPLACED BY A NEW LINE.
2. NO JOINTS IN UTILITY SERVICE PIPE TO BE LOCATED INSIDE PVC PIPE SLEEVE.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	SIDEWALK	
Bill Gardner 3/26/08 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 432S-1 3 OF 3

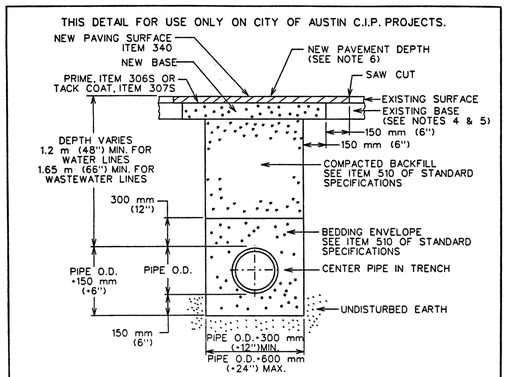


CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	RESIDENTIAL AND NEIGHBORHOOD COLLECTOR STREET SECTIONS	
Luis Loureiro 9/29/99 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 1000S-11 1 OF 2



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION	COMMERCIAL AND INDUSTIRAL COLLECTOR STREET SECTIONS	
Luis Loureiro 9/29/99 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 1000S-11 2 OF 2

THIS DETAIL FOR USE ONLY ON CITY OF AUSTIN C.I.P. PROJECTS.



NOTES:
1. THE EXISTING PAVING SURFACE SHALL BE SAW CUT IN A STRAIGHT LINE A MINIMUM OF 300 mm (12") WIDER THAN THE UNDISTURBED SIDES OF THE TRENCH, SYMETRICAL ABOUT THE CENTER LINE OF THE EXCAVATION.
2. ANY CONCRETE PAVING SHALL BE SAW CUT 150 mm (6") WIDER THAN UNDISTURBED SIDES OF EXCAVATION.
3. IF EXCAVATION AREA IS OPEN FOR TEMPORARY PUBLIC USE, THE SURFACE SHALL BE MAINTAINED LEVEL WITH ADJACENT RIDING SURFACE WITH COLD MIX OR TEMPORARY HOT MIX ASPHALTIC CONCRETE.
4. ROAD BASE AND SURFACE MATERIALS IN THE TRENCH CUT SHALL BE REPLACED IN KIND OF EQUAL THICKNESS, OR MINIMUM BASE THICKNESS OF 250 mm (10"), WHICHEVER IS GREATER.
5. ALL DAMAGED AREAS OF PAVEMENT OUTSIDE THE TRENCH CUT SHALL BE REMOVED AND REPLACED WITH MINIMUM OF 200 mm (8") OF BASE OR MATCH EXISTING THICKNESS, WHICHEVER IS GREATER.
6. SURFACE PAVEMENT SHALL BE OF THE KIND AND THICKNESS AS EXISTING, OR MINIMUM 50 mm (2"), WHICHEVER IS GREATER.

CITY OF AUSTIN WATER AND WASTEWATER UTILITY	TYPICAL TRENCH WITH PAVED SURFACE	
Leon Barba, P.E. 8/19/02 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 510S-3

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED PROFESSIONAL ENGINEER
11-12-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

SHEET TITLE

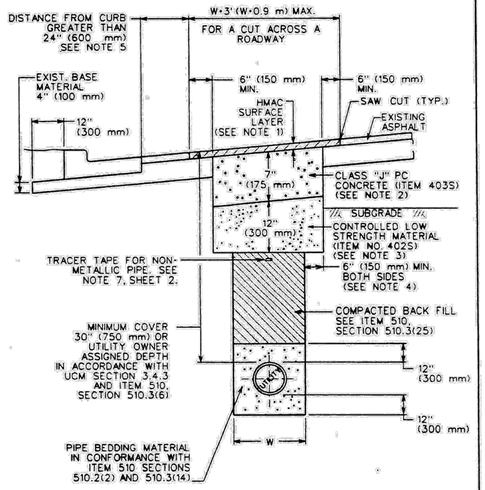
CIVIL

STANDARD DETAILS

SCALE: AS SHOWN

SHEET SD-03
51 OF 55

REPAIR OF EXCAVATIONS PARALLEL TO THE CURB
(UCM SECTION 5.5.7.1)

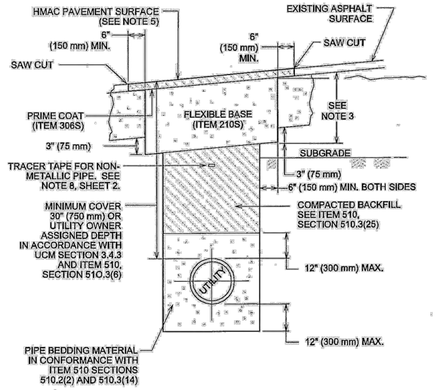


CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	EXCAVATIONS PARALLEL TO THE CURB	
Bill Gardner 9/14/05 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 1100S-6B 1 OF 2

NOTES:
1. REPLACEMENT AC SURFACE LAYER SHALL BE OF THE TYPE AND THICKNESS BASED ON FUNCTIONAL CLASSIFICATION.
   a) MIN. 2" (50 mm) HMAC TYPE "D" FOR TRENCH REPAIR IN LOCAL/RESIDENTIAL STREETS.
   b) MIN. 3" (75 mm) HMAC TYPE "C" FOR TRENCH REPAIR IN COLLECTOR/ARTERIAL STREETS.
   SEE ITEM 340S, SECTION 340S.4.
2. PC CONCRETE GREATER THAN A 2 SACK MIX WILL NOT BE ALLOWED.
3. CLASS "J" CONCRETE, ITEM 403S OR CONTROLLED LOW STRENGTH MATERIAL (CLSM), MAY BE SUBSTITUTED IN THESE REPAIRS FOR THE FLEXIBLE BASE AND COMPACTED BACKFILL.
4. FOR TRENCH WIDTHS 6" (150 mm) OR LESS, WIDENING OF THE BASE BEYOND THE TRENCH FACE MAY BE ELIMINATED IF THE EXISTING PAVEMENT STRUCTURE (INCLUDING THE BASE) REMAINS INTACT AND STABLE AFTER COMPLETION OF EXCAVATION.
5. IF ANY DIMENSION IN THIS AREA IS LESS THAN 24" (600 mm), THE ENTIRE AREA WILL BE REMOVED AND PAVED WITH NEW PAVEMENT.
6. TACK COAT, ITEM 307S, ALL EXPOSED EDGES AND SURFACES.
7. AS PER CITY OF AUSTIN STANDARD SPECIFICATION 510, SECTION 510.2(8)(K)5, FOR ALL NON-METALLIC PIPE, DIRECTLY ABOVE THE CENTERLINE OF THE PIPE AND A MINIMUM OF 12" (300 mm) BELOW THE SUBGRADE, OR A MINIMUM OF 18" (450 mm) BELOW FINISHED GRADE ON AREAS OUTSIDE THE LIMITS OF PAVEMENT, SHALL BE PLACED INDUCTIVE TRACER TAPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. THE TAPE SHALL BE ENCASED IN A PROTECTIVE, INERT, PLASTIC JACKET AND COLOR CODED IN ACCORDANCE WITH APWA UNIFORM COLOR CODE.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	EXCAVATIONS PARALLEL TO THE CURB	
Bill Gardner 9/14/05 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 1100S-6B 2 OF 2

TRENCH REPAIR IN ASPHALTIC SURFACE OVER FLEXIBLE BASE
(UCM SECTION 5.8.0)

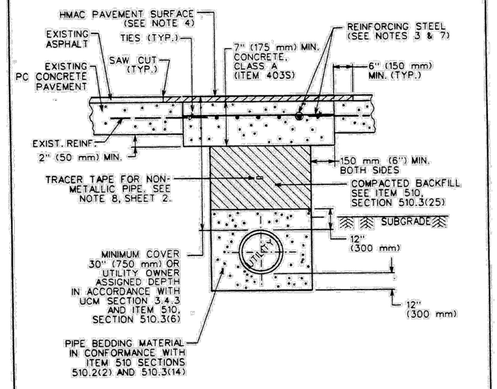


CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	FLEXIBLE BASE WITH ASPHALT SURFACE TRENCH REPAIR-EXISTING PAVEMENT	
Kris Bunchard-Jones 9/9/11 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 1100S-2 1 OF 2

NOTES:
1. THE EXISTING PAVING SURFACE SHALL BE SAW CUT IN A STRAIGHT LINE, A MINIMUM OF 12" (300 mm) WIDER THAN UNDISTURBED SIDES OF THE TRENCH AND SYMMETRICAL ABOUT THE CENTER LINE OF THE EXCAVATION.
2. IF EXCAVATION AREA IS OPEN FOR TEMPORARY PUBLIC USE, THE SURFACE SHALL BE MAINTAINED LEVEL WITH ADJACENT RIDING SURFACE WITH COLD MIX AC OR TEMPORARY HMAC. TEMPORARY MIX SHALL BE PLACED OVER FLEXIBLE BASE.
3. ROAD BASE SHALL BE REPLACED IN KIND WITH BASE THICKNESS EQUAL TO EXISTING BASE THICKNESS PLUS 3" (75 mm), BUT IN NO CASE LESS THAN 12" (300 mm).
4. DAMAGED PAVEMENT OUTSIDE THE TRENCH CUT SHALL BE REMOVED AND REPLACED WITH A BASE THICKNESS OF 10" (250 mm) OR A THICKNESS MATCHING EXISTING, WHICHEVER IS GREATER.
5. REPLACEMENT AC SURFACE LAYER SHALL BE OF THE TYPE AND THICKNESS BASED ON FUNCTIONAL CLASSIFICATION.
   a) MIN. 2" (50 mm) HMAC TYPE "D" FOR TRENCH REPAIR IN LOCAL/RESIDENTIAL STREETS.
   b) MIN. 3" (75 mm) HMAC TYPE "C" FOR TRENCH REPAIR IN COLLECTOR/ARTERIAL STREETS.
   SEE ITEM 340S, SECTION 340S.4.
6. CLASS "J" PC CONCRETE (ITEM 403S) OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE SUBSTITUTED IN THESE REPAIRS FOR THE FLEXIBLE BASE AND COMPACTED BACKFILL. PC CONCRETE GREATER THAN A 2 SACK MIX WILL NOT BE ALLOWED.
7. TACK COAT ALL EXPOSED EDGES AND SURFACES (SPEC ITEM 307S).
8. AS PER CITY OF AUSTIN STANDARD SPECIFICATION 510, SECTION 510.2(8)(K)5, FOR ALL NON-METALLIC PIPE, DIRECTLY ABOVE THE CENTERLINE OF THE PIPE AND A MINIMUM OF 12" (300 mm) BELOW THE SUBGRADE, OR A MINIMUM OF 18" (450 mm) BELOW FINISHED GRADE ON AREAS OUTSIDE THE LIMITS OF PAVEMENT, SHALL BE PLACED INDUCTIVE TRACER TAPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. THE TAPE SHALL BE ENCASED IN A PROTECTIVE, INERT, PLASTIC JACKET AND COLOR CODED IN ACCORDANCE WITH APWA UNIFORM COLOR CODE.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	FLEXIBLE BASE WITH ASPHALT SURFACE TRENCH REPAIR-EXISTING PAVEMENT	
Kris Bunchard-Jones 9/9/11 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 1100S-2 2 OF 2

TRENCH REPAIR IN EXISTING PAVEMENTS
(UCM SECTION 5.5.10, 5.5.11, & 5.5.12)



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	ASPHALT OVERLAY OF REINFORCED AND NON-REINFORCED PC PVT.-TRENCH REPAIR	
Bill Gardner 9/14/05 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 1100S-3 1 OF 2

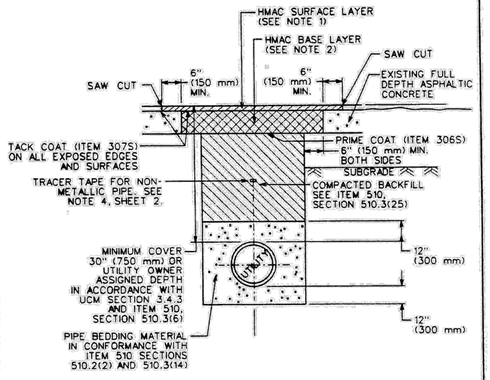
NOTES:
1. EXISTING REINFORCED CONCRETE SHALL BE SAW CUT TO A MINIMUM DEPTH OF 1½" (40 mm) AT A MINIMUM DISTANCE OF 6" (150 mm) BACK OF THE VERTICAL WALL OF THE UTILITY TRENCH.
2. REPLACEMENT REINFORCED CONCRETE SHALL BE CLASS A AND SHALL MATCH EXISTING FINISH AND THICKNESS, BUT THE THICKNESS SHALL NOT BE LESS THAN 7" (175 mm).
3. REINFORCING STEEL IN THE REPLACEMENT SLAB SHALL BE AT LEAST #5 (15M) BARS. REINFORCING STEEL SHALL BE LAP SPLICED ACCORDING TO ITEM NO. 406S. IF LENGTH OF LAP CAN NOT BE ACHIEVED, BARS SHALL BE OVERLAPPED AND WELDED A MINIMUM LENGTH OF 6" (150 mm).
4. IF EXISTING PAVEMENT SECTION HAS AN ASPHALT SURFACE THE FOLLOWING APPLIES: REPLACEMENT AC SURFACE LAYER SHALL BE OF THE TYPE AND THICKNESS BASED ON FUNCTIONAL CLASSIFICATION.
   a) MIN. 2" (50 mm) HMAC TYPE "D" FOR TRENCH REPAIR IN LOCAL/RESIDENTIAL STREETS.
   b) MIN. 3" (75 mm) HMAC TYPE "C" FOR TRENCH REPAIR IN COLLECTOR/ARTERIAL STREETS.
   SEE ITEM 340S, SECTION 340S.4.
5. CLASS "J" PC CONCRETE (ITEM 403S) OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE SUBSTITUTED IN THESE REPAIRS FOR THE FLEXIBLE BASE AND COMPACTED BACKFILL. PC CONCRETE GREATER THAN A 2 SACK MIX WILL NOT BE ALLOWED.
6. TACK COAT (ITEM 307S) ALL EXPOSED EDGES AND SURFACES.
7. ON EXISTING PC CONCRETE PAVEMENT WITHOUT REINFORCING STEEL, USE 4" TO 6" (100 mm TO 150 mm), #5 (15M) DOWELS AT 12" (300 mm) ON CENTER FOR PAVEMENT THICKNESS 6" (150 mm) OR GREATER.
8. AS PER CITY OF AUSTIN STANDARD SPECIFICATION 510, SECTION 510.2(8)(K)5, FOR ALL NON-METALLIC PIPE, DIRECTLY ABOVE THE CENTERLINE OF THE PIPE AND A MINIMUM OF 12" (300 mm) BELOW THE SUBGRADE, OR A MINIMUM OF 18" (450 mm) BELOW FINISHED GRADE ON AREAS OUTSIDE THE LIMITS OF PAVEMENT, SHALL BE PLACED INDUCTIVE TRACER TAPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. THE TAPE SHALL BE ENCASED IN A PROTECTIVE, INERT, PLASTIC JACKET AND COLOR CODED IN ACCORDANCE WITH APWA UNIFORM COLOR CODE.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	ASPHALT OVERLAY OF REINFORCED AND NON-REINFORCED PC PVT.-TRENCH REPAIR	
Bill Gardner 9/14/05 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 1100S-3 2 OF 2

NOTES:
1. REPLACEMENT AC SURFACE LAYER SHALL BE OF THE TYPE AND THICKNESS BASED ON FUNCTIONAL CLASSIFICATION.
   a) MIN. 2" (50 mm) HMAC TYPE "D" FOR TRENCH REPAIR IN LOCAL/RESIDENTIAL STREETS.
   b) MIN. 3" (75 mm) HMAC TYPE "C" FOR TRENCH REPAIR IN COLLECTOR/ARTERIAL STREETS.
   SEE ITEM 340S, SECTION 340S.4.
2. THE COMBINED THICKNESS OF THE REPLACEMENT AC SURFACE AND BASE LAYERS SHALL MATCH THE THICKNESS OF EXISTING FULL DEPTH AC LAYER. HOWEVER, THE REPLACEMENT AC BASE LAYER SHALL BE A MINIMUM THICKNESS OF 6" (150 mm) OF TYPE A OR B HMA. A BASE LAYER TYPE THAT MATCHES THE NEW HMA SURFACE LAYER (SEE NOTE 1) MAY BE USED, IF THE TOTAL REPAIR AREA IS LESS THAN 300 SQUARE YARDS (250 SQUARE METERS).
3. CLASS "J" PC CONCRETE (ITEM 403S) OR CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE SUBSTITUTED IN THESE REPAIRS FOR THE FLEXIBLE BASE AND COMPACTED BACKFILL. PC CONCRETE GREATER THAN A 2 SACK MIX WILL NOT BE ALLOWED.
4. AS PER CITY OF AUSTIN STANDARD SPECIFICATION 510, SECTION 510.2(8)(K)5, FOR ALL NON-METALLIC PIPE, DIRECTLY ABOVE THE CENTERLINE OF THE PIPE AND A MINIMUM OF 12" (300 mm) BELOW THE SUBGRADE, OR A MINIMUM OF 18" (450 mm) BELOW FINISHED GRADE ON AREAS OUTSIDE THE LIMITS OF PAVEMENT, SHALL BE PLACED INDUCTIVE TRACER TAPE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. THE TAPE SHALL BE ENCASED IN A PROTECTIVE, INERT, PLASTIC JACKET AND COLOR CODED IN ACCORDANCE WITH APWA UNIFORM COLOR CODE.

CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	FULL DEPTH ASPHALTIC CONCRETE PAVEMENT TRENCH REPAIR	
Bill Gardner 9/14/05 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 1100S-5 2 OF 2

REPAIR OF FULL DEPTH ASPHALTIC CONCRETE (UCM SECTION 5.5.13)



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS	FULL DEPTH ASPHALTIC CONCRETE PAVEMENT TRENCH REPAIR	
Bill Gardner 9/14/05 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 1100S-5 1 OF 2

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
11-12-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN ROUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

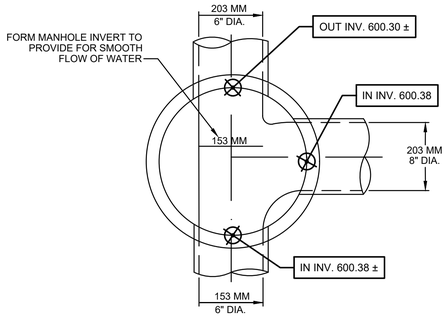
SHEET TITLE

CIVIL

STANDARD DETAILS

SCALE: AS SHOWN

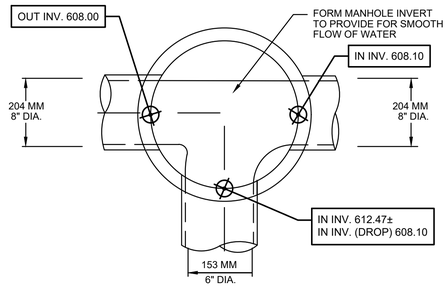
SHEET SD-04
52 OF 55



TYPICAL JUNCTION MANHOLE

STA 1+00

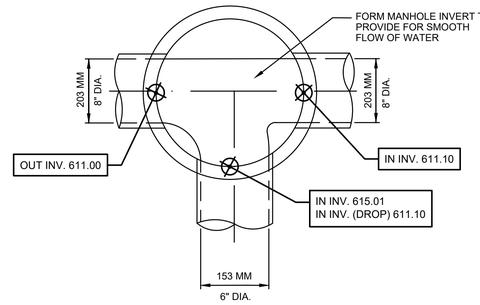
1 SD-05 DETAIL



TYPICAL JUNCTION MANHOLE (WITH DROP)

STA 4+04.79

2 SD-05 DETAIL

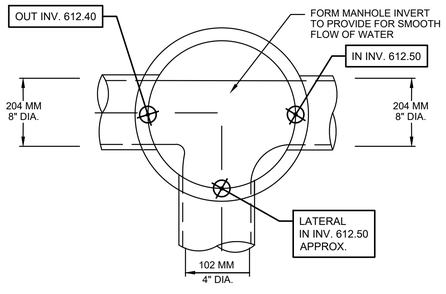


TYPICAL JUNCTION MANHOLE (WITH DROP)

STA 6+98.82

3 SD-05 DETAIL

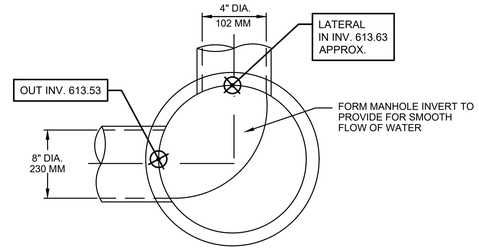
REVIEWED
December 03, 2020
Austin Water
Type Name Here



TYPICAL JUNCTION MANHOLE

STA 9+48.39

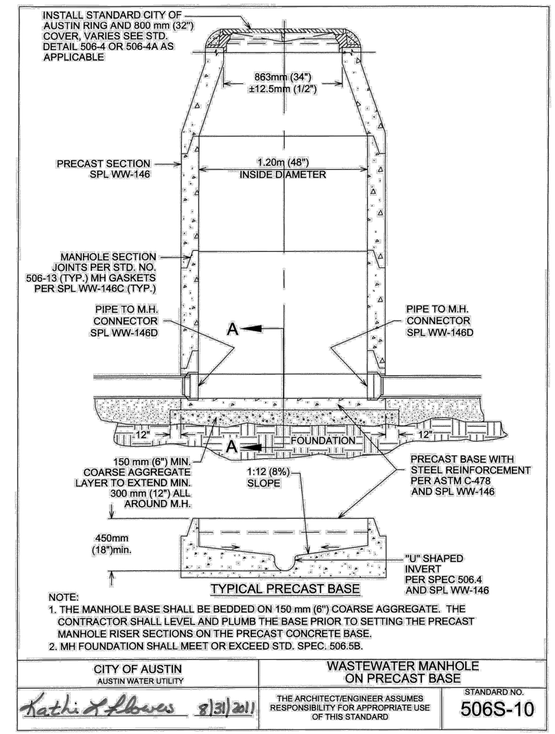
4 SD-05 DETAIL



TYPICAL MANHOLE AT ANGLE IN SEWER MAIN

STA 11+45.64

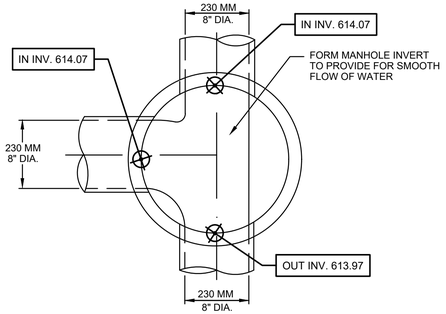
5 SD-05 DETAIL



TYPICAL PRECAST BASE

NOTE:
1. THE MANHOLE BASE SHALL BE BEDDED ON 150 mm (6") COARSE AGGREGATE. THE CONTRACTOR SHALL LEVEL AND PLUMB THE BASE PRIOR TO SETTING THE PRECAST MANHOLE RISER SECTIONS ON THE PRECAST CONCRETE BASE.
2. MH FOUNDATION SHALL MEET OR EXCEED STD. SPEC. 506.5B.

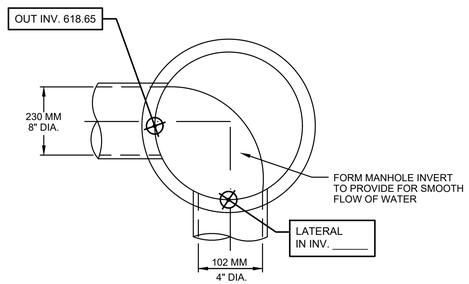
CITY OF AUSTIN AUSTIN WATER UTILITY	WASTEWATER MANHOLE ON PRECAST BASE	
Kathi Kollaves 8/31/2011	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD	STANDARD NO. 506S-10



TYPICAL JUNCTION MANHOLE

STA 22+47.75

6 SD-05 DETAIL



TYPICAL MANHOLE AT ANGLE IN SEWER MAIN

STA 27+90.30

7 SD-05 DETAIL

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
12-3-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE:	NOVEMBER 2020
PROJECT NO.:	02908105.0000
DESIGNED BY:	J. RECK
DRAWN BY:	B.SCROGGINS
CHECKED BY:	H.STEED

SHEET TITLE

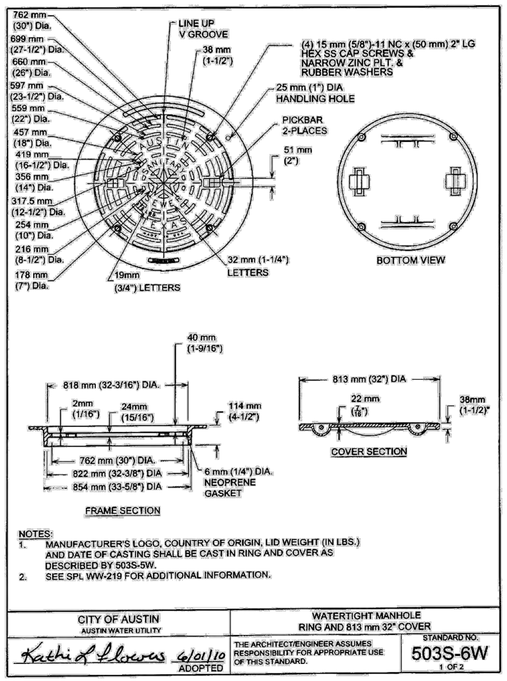
CIVIL

STANDARD DETAILS

SCALE: AS SHOWN

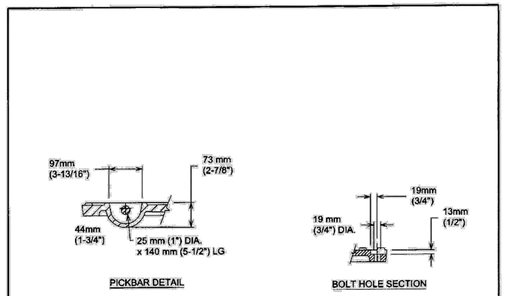
SHEET SD-05

53 OF 55

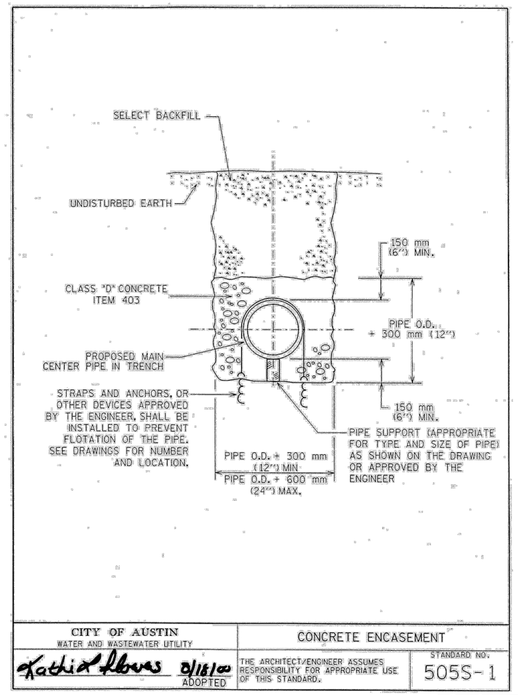


NOTES:
1. MANUFACTURER'S LOGO, COUNTRY OF ORIGIN, LID WEIGHT (IN LBS.) AND DATE OF CASTING SHALL BE CAST IN RING AND COVER AS DESCRIBED BY 503S-5W.
2. SEE SPL WW-219 FOR ADDITIONAL INFORMATION.

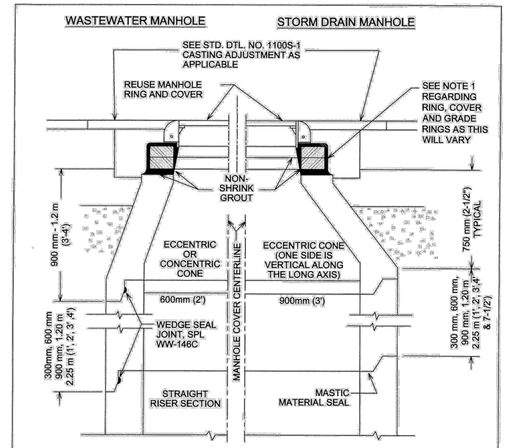
CITY OF AUSTIN AUSTIN WATER UTILITY	WATERTIGHT MANHOLE RING AND 813 mm 32" COVER	
Kathi L Flowers 6/01/10 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 503S-6W 1 OF 2



CITY OF AUSTIN AUSTIN WATER UTILITY	WATERTIGHT MANHOLE RING AND 813 mm 32" COVER	
Kathi L Flowers 6/01/10 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 503S-6W 2 OF 2



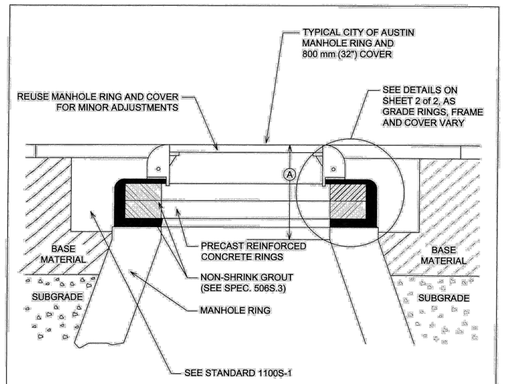
CITY OF AUSTIN WATER AND WASTEWATER UTILITY	CONCRETE ENCASEMENT	
Kathi L Flowers 01/18/00 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 505S-1



1. SEE "MINOR MANHOLE HEIGHT ADJUSTMENT" STANDARDS 506S-4 AND 506S-4A FOR ADDITIONAL INFORMATION.
2. MANHOLE SECTIONS TEMPORARILY REMOVED FOR ROADWAY CONSTRUCTION MAY BE REUSED ONLY WITH WRITTEN APPROVAL OF THE INSPECTOR. WEDGE SEALS SHALL NOT BE REUSED.
3. ANY COMBINATION OF REMOVING THE GRADE RINGS, AND/OR THE MANHOLE CONE, AND/OR THE STRAIGHT RISER SECTION OF THE MANHOLE SHALL BE ACCEPTABLE TO TEMPORARILY LOWER THE MANHOLE GRADE FOR RECONSTRUCTION.
4. WHILE THE MANHOLE IS TEMPORARILY LOWERED, A SHEET OF STEEL SUITABLE TO SUPPORT ALL IMPOSED LOADS SHALL BE USED TO COVER THE OPENING. STEEL SHALL BE PLACED SO THE SHEET WILL NOT MOVE UNDER ANY & ALL TRAFFIC CONDITIONS.
5. SUB-GRADE AND BASE MATERIALS SHALL BE COMPACTED TO 95% AND 100% DENSITIES, RESPECTIVELY. COMPACTION SHALL BE BY MECHANICAL TAMPING TO THE DENSITIES SPECIFIED, SEE STD. DTL. NO .1100S-1.

CITY OF AUSTIN AUSTIN WATER UTILITY	MAJOR MANHOLE ADJUSTMENT	
Kathi L Flowers 8-31-2011	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 506S-2

REVIEWED
December 02, 2020
Austin Water
Type Name Here

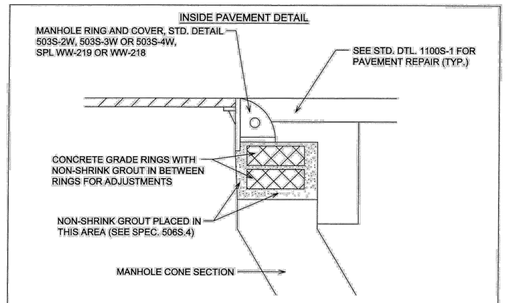


Ⓐ VERTICAL FACE = ALLOWABLE THROAT OR CHIMNEY HEIGHT
= NEW CONSTRUCTION = 525mm = (21") Max.
= EXISTING CONSTRUCTION = 675mm (27") Max.

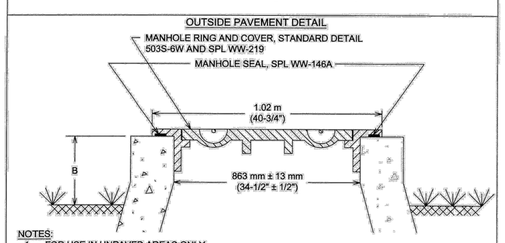
NOTES:
1. NON-SHRINK GROUT SHALL NOT EXCEED 25 mm (1") IN ANY DIMENSION.
2. SUB-GRADE AND BASE MATERIALS SHALL BE COMPACTED ACCORDING TO ITEMS 201S AND 210S, RESPECTIVELY, OF THE CITY OF AUSTIN STANDARD SPECIFICATIONS.
3. REFER TO STANDARD 1100S-1 FOR REPAIRS AROUND MANHOLES.
4. SEE STANDARD 506S-4A FOR HDPE RING INSTALLATION (FOR USE IN PAVED AREAS ONLY).

CITY OF AUSTIN AUSTIN WATER UTILITY	MINOR MANHOLE ADJUSTMENT & NEW MANHOLE CONSTRUCTION	
Kathi L Flowers 8/31/2011	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 506S-4 1 OF 2

INSIDE PAVEMENT DETAIL

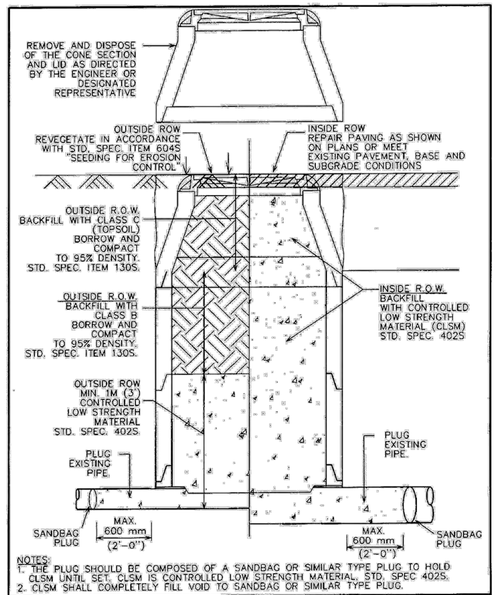


OUTSIDE PAVEMENT DETAIL



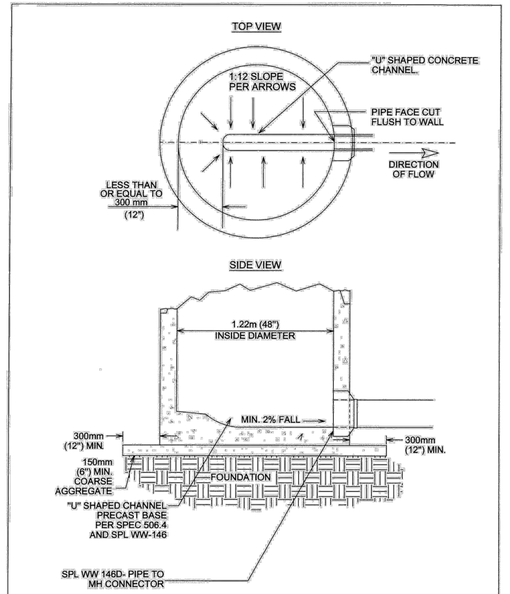
NOTES:
1. FOR USE IN UNPAVED AREAS ONLY
2. WHEN USED WITHIN 100-YEAR FLOODPLAIN, SEE DTL. 506S-6 FOR ADDITIONAL M.H. REQUIREMENTS.
3. DIMENSION B=150-300 mm (6"-12") FOR M.H. LOCATED IN 100-YR FLOOD PLAN.
=50-300 mm (2"-12") FOR M.H. OUTSIDE 100-YR FLOOD PLAN.

CITY OF AUSTIN AUSTIN WATER UTILITY	MINOR MANHOLE ADJUSTMENT & NEW MANHOLE CONSTRUCTION	
Kathi L Flowers 8/31/2011	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 506S-4 2 OF 2



NOTES:
1. THE PLUG SHOULD BE COMPOSED OF A SANDBAG OR SIMILAR TYPE PLUG TO HOLD CLSM UNTIL SET. CLSM IS CONTROLLED LOW STRENGTH MATERIAL STD. SPEC 402S.
2. CLSM SHALL COMPLETELY FILL VOID TO SANDBAG OR SIMILAR TYPE PLUG.

CITY OF AUSTIN AUSTIN WATER UTILITY	ABANDONED MANHOLE	
Kathi L Flowers 6/01/10 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 506S-15



NOTE 1: MANHOLE FOUNDATION TO MEET OR EXCEED STD. SPEC. 506.5B

CITY OF AUSTIN AUSTIN WATER UTILITY	END MANHOLE ON PRECAST BASE	
Kathi L Flowers 8/31/2011	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 506S-1A

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
11-12-2020

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: B.SCROGGINS
CHECKED BY: H.STEED

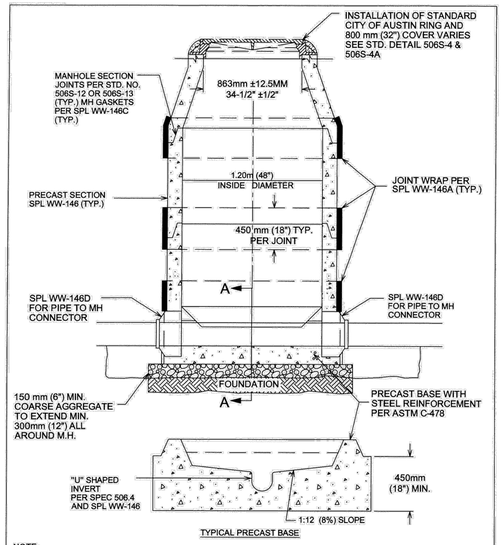
SHEET TITLE

CIVIL

STANDARD DETAILS

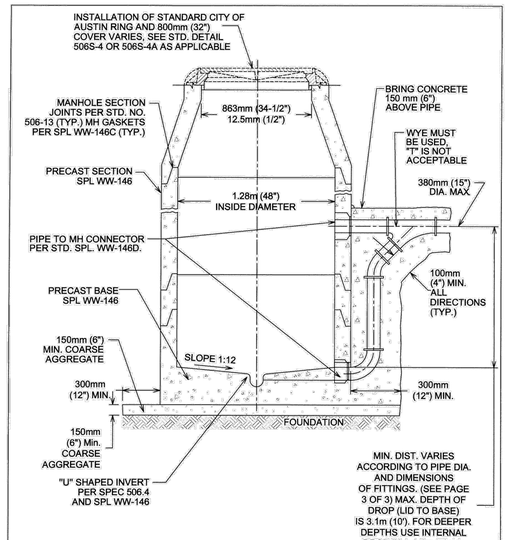
SCALE: AS SHOWN

SHEET SD-06
54 OF 55



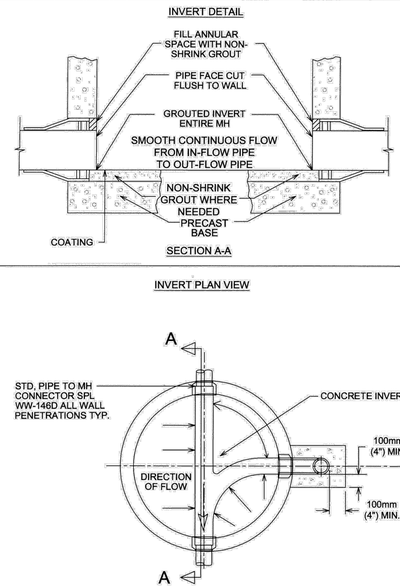
NOTE:
1. THE MANHOLE BASE SHALL BE BEDDED ON 150 mm (6") COARSE AGGREGATE. THE CONTRACTOR SHALL LEVEL AND PLUMB THE BASE PRIOR TO SETTING THE PRECAST MANHOLE RISER SECTIONS ON THE PRECAST CONCRETE BASE.
2. MANHOLE FOUNDATION SHALL MEET OR EXCEED SPEC. 506.5B.

CITY OF AUSTIN AUSTIN WATER UTILITY	WATER TIGHT WASTEWATER MANHOLE ON PRECAST BASE	
Kathi K Bowers 8/31/2011	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 506S-6

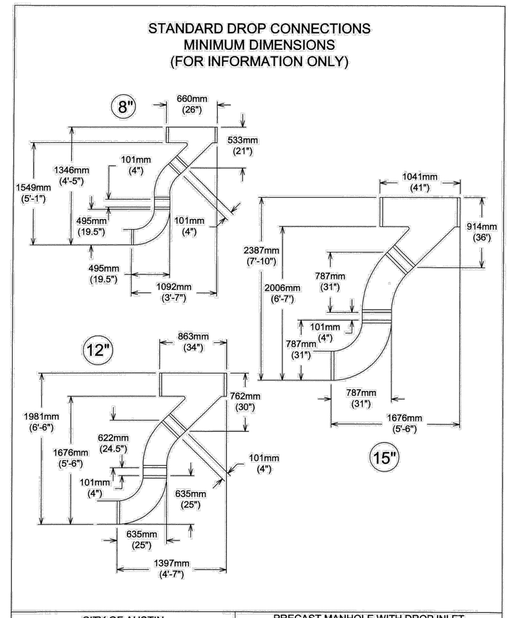


NOTES:
1. THE MANHOLE BASE SHALL BE BEDDED ON 150mm (6") COARSE AGGREGATE. THE CONTRACTOR SHALL LEVEL AND PLUMB THE BASE PRIOR TO SETTING THE PRECAST MANHOLE RISER SECTIONS ON THE PRECAST CONCRETE BASE.
2. MANHOLE FOUNDATION SHALL MEET OR EXCEED STD. SPEC 506.5B.

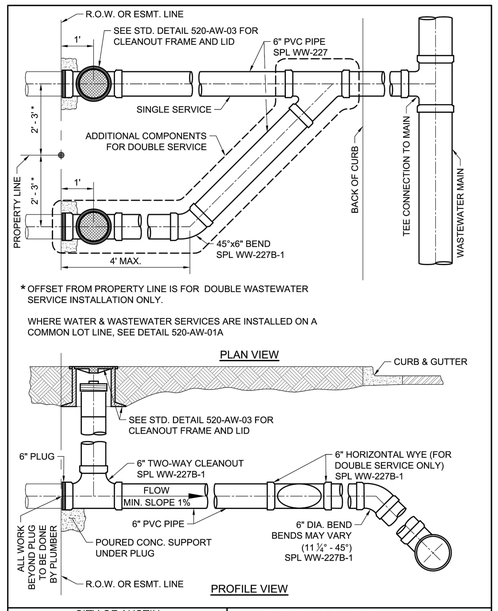
CITY OF AUSTIN AUSTIN WATER UTILITY	PRECAST MANHOLE WITH DROP INLET ON PRECAST BASE	
Kathi K Bowers 8/31/2011	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 506S-8 1 OF 3



CITY OF AUSTIN AUSTIN WATER UTILITY	PRECAST MANHOLE WITH DROP INLET ON PRECAST BASE	
Kathi K Bowers 8/31/2011	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 506S-8 2 OF 3

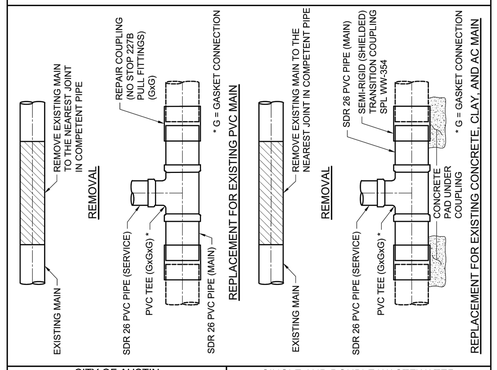


CITY OF AUSTIN AUSTIN WATER UTILITY	PRECAST MANHOLE WITH DROP INLET ON PRECAST BASE	
Kathi K Bowers 8/31/2011	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 506S-8 3 OF 3

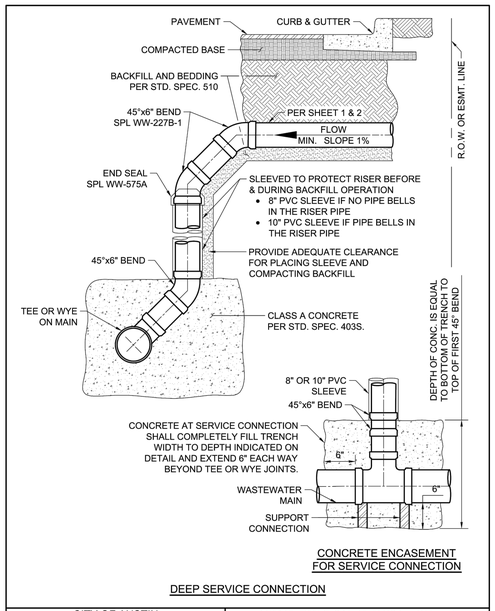


CITY OF AUSTIN AUSTIN WATER	SINGLE AND DOUBLE WASTEWATER SERVICE CONNECTION	
RECORD COPY SIGNED JEFF A. KYLE 11/07/2018 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 520-AW-01C 1 OF 4

NOTES:
1. DURING SUBDIVISION CONSTRUCTION, UTILITY CONTRACTOR INSTALLS WASTEWATER TEE CONNECTION TO MAIN, 6" STUB, HORIZONTAL WYE FOR DOUBLE SERVICES, 6" SERVICE BRANCH WITH TWO-WAY CLEANOUT(S) AND RISER, FRAME, AND COVER. CLEANOUT(S) TO BE PLUGGED AT PROPERTY LINE OR EASEMENT LINE END. ALL WASTEWATER PIPING SHALL HAVE ELASTOMERIC GASKET TYPE JOINTS AND SLOPE DOWNWARD TO MAIN 1% MIN. TO 45° MAX. DEPTH OF SERVICE AT PROPERTY LINE WILL BE SHOWN ON PLANS BY ENGINEER IF GREATER THAN 4', OTHERWISE THE INSTALLED DEPTH WILL BE 4' MIN. AND 6' MAX. AT PROPERTY LINE. IF WASTEWATER SERVICE LINE TO MAIN REQUIRES DEFLECTION EXCEEDING 45°, SEE SHEET 3 OF 4.
2. PIPING IN STREET RIGHT-OF-WAY AND IN EASEMENT AREA SHALL BE BEDDED IN GRANULAR MATERIALS AS REQUIRED BY CITY OF AUSTIN STANDARD SPECIFICATION 510.3 (14); MATERIALS SHALL BE AS SPECIFIED IN 510.2 (2)(A) AND (3)(B); BACKFILL ABOVE THE GRANULAR BEDDING SHALL BE AS REQUIRED BY SECTION 510.3 (25). SERVICE LINES IN THESE AREAS SHALL HAVE A MIN. COVER BELOW FINAL STREET GRADE OF 42".
3. PLUMBER SHALL REMOVE PLUG AND CONNECT TO TWO-WAY CLEANOUT. NO CONNECTION TO CLEANOUT STACK IS ALLOWED.

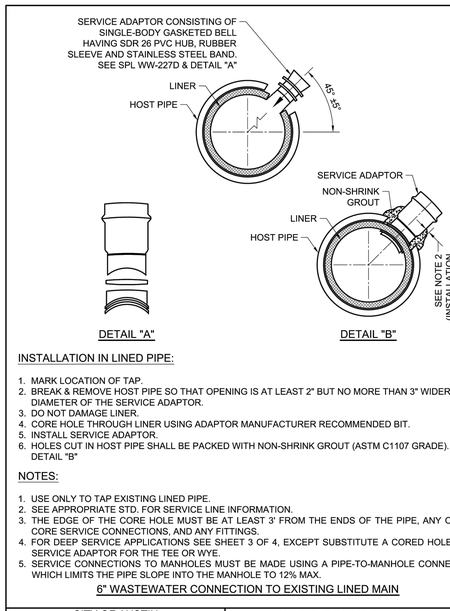


CITY OF AUSTIN AUSTIN WATER	SINGLE AND DOUBLE WASTEWATER SERVICE CONNECTION	
RECORD COPY SIGNED JEFF A. KYLE 11/07/2018 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 520-AW-01C 2 OF 4



DEEP SERVICE CONNECTION

CITY OF AUSTIN AUSTIN WATER	SINGLE AND DOUBLE WASTEWATER SERVICE CONNECTION	
RECORD COPY SIGNED JEFF A. KYLE 11/07/2018 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 520-AW-01C 3 OF 4



INSTALLATION IN LINED PIPE:

1. MARK LOCATION OF TAP.
2. BREAK & REMOVE HOST PIPE SO THAT OPENING IS AT LEAST 2" BUT NO MORE THAN 3" WIDER THAN DIAMETER OF THE SERVICE ADAPTOR.
3. DO NOT DAMAGE LINER.
4. CORE HOLE THROUGH LINER USING ADAPTOR MANUFACTURER RECOMMENDED BIT.
5. INSTALL SERVICE ADAPTOR.
6. HOLES CUT IN HOST PIPE SHALL BE PACKED WITH NON-SHRINK GROUT (ASTM C1107 GRADE). SEE DETAIL "B"

NOTES:

1. USE ONLY TO TAP EXISTING LINED PIPE.
2. SEE APPROPRIATE STD. FOR SERVICE LINE INFORMATION.
3. THE EDGE OF THE CORE HOLE MUST BE AT LEAST 3' FROM THE ENDS OF THE PIPE, ANY OTHER CORE SERVICE CONNECTIONS, AND ANY FITTINGS.
4. FOR DEEP SERVICE APPLICATIONS SEE SHEET 3 OF 4, EXCEPT SUBSTITUTE A CORED HOLE, AND SERVICE ADAPTOR FOR THE TEE OR WYE.
5. SERVICE CONNECTIONS TO MANHOLES MUST BE MADE USING A PIPE-TO-MANHOLE CONNECTOR WHICH LIMITS THE PIPE SLOPE INTO THE MANHOLE TO 12% MAX.

6" WASTEWATER CONNECTION TO EXISTING LINED MAIN

CITY OF AUSTIN AUSTIN WATER	SINGLE AND DOUBLE WASTEWATER SERVICE CONNECTION	
RECORD COPY SIGNED JEFF A. KYLE 11/07/2018 ADOPTED	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 520-AW-01C 4 OF 4

ARCADIS
FIRM REGISTRATION NUMBER: F-533

STATE OF TEXAS
JEFFREY E. RECK
93786
LICENSED
PROFESSIONAL ENGINEER
12-3-2020

REVIEWED
December 03, 2020
Austin Water
Type Name Here

CITY OF AUSTIN, TEXAS
AUSTIN WATER UTILITY

CITY OF AUSTIN FOUNDED 1839

BRYKER ROAD
WATER AND WASTEWATER
REPLACEMENT PROJECT

NO.	DATE	REVISION	BY

DATE: NOVEMBER 2020
PROJECT NO.: 02908105.0000
DESIGNED BY: J. RECK
DRAWN BY: N. CANDELAS
CHECKED BY: H.STEED

SHEET TITLE

CIVIL

STANDARD DETAILS

SCALE: AS SHOWN

SHEET SD-07
55 OF 55

File: I:\ACAD\PROJ\02908105-COA\2-SHEETS\13-SD-STANDARD DETAILS Date: 12/3/2020 9:02 AM Last Saved By: NCANDELAS